

INDEPENDENT ORBITER ASSESSMENT

ASSESSMENT OF THE ELECTRICAL POWER DISTRIBUTION AND CONTROL SUBSYSTEM VOLUME 1 OF 3

26 FEBRUARY 1988

MCDONNELL DOUGLAS ASTRONAUTICS COMPANY
HOUSTON DIVISION

SPACE TRANSPORTATION SYSTEM ENGINEERING AND OPERATIONS SUPPORT

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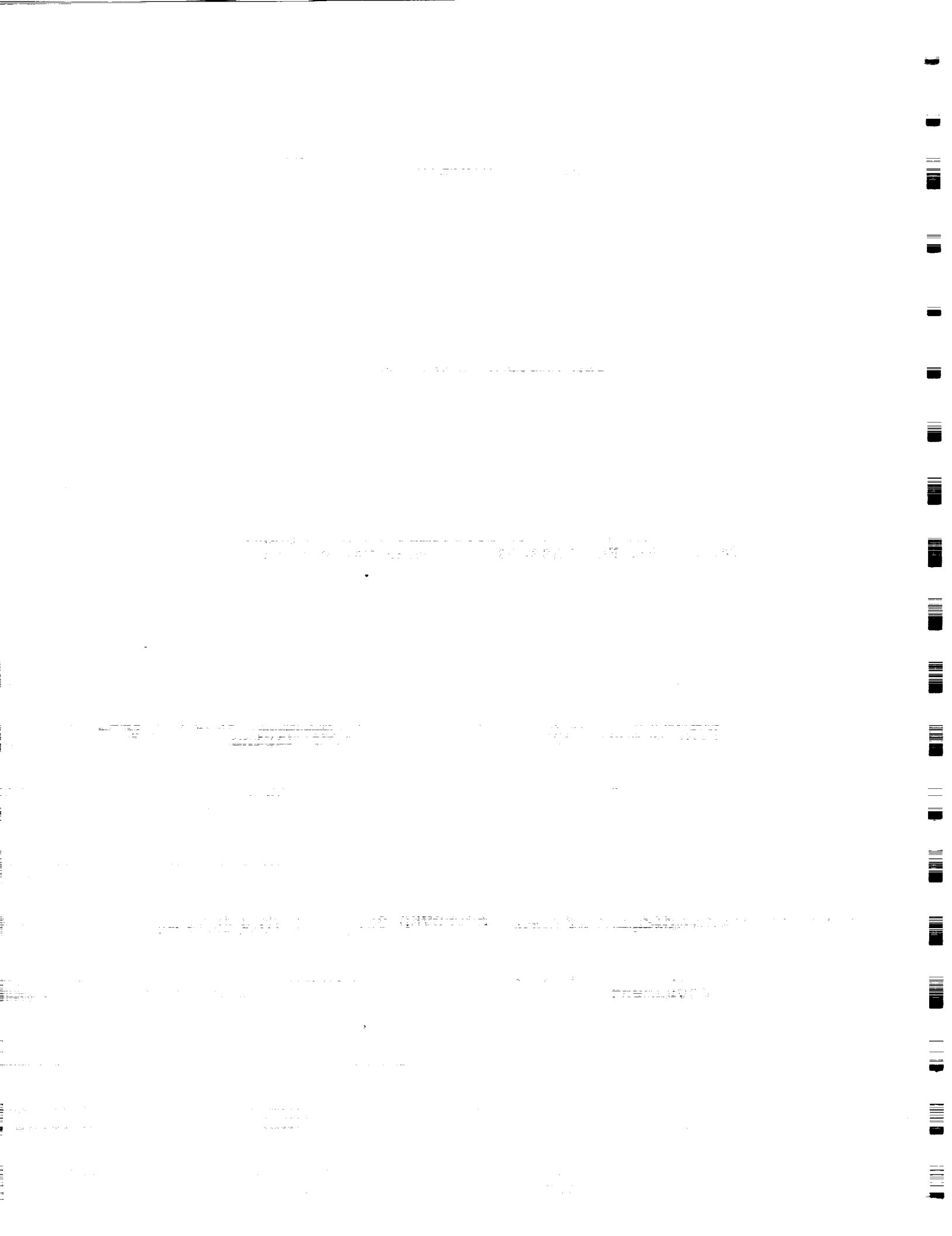
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Independent Orbiter Assessment
Assessment of the EPD&C FMEA/CIL

1.0 EXECUTIVE SUMMARY

The McDonnell Douglas Astronautics Company (MDAC) was selected in June 1986 to perform an Independent Orbiter Assessment (IOA) of the Failure Modes and Effects Analysis (FMEA) and Critical Items List (CIL). Direction was given by the STS Orbiter and GFE Projects Office to perform the hardware analysis using the instructions and ground rules defined in NSTS 22206, Instructions for Preparation of FMEA and CIL, 10 October 1986.

The IOA first completed an analysis of the Electrical Power Distribution and Control (EPD&C) hardware, generating draft failure modes and potential critical items. To preserve independence, this analysis was accomplished without reliance upon the results contained within the NASA FMEA/CIL documentation. The IOA results were then compared to the NASA FMEA/CIL baseline with proposed Post 51-L updates included. A resolution of each discrepancy from the comparison is provided through additional analysis as required. This report documents the results of that comparison for the Orbiter EPD&C hardware.

The IOA product for the EPD&C analysis consisted of one thousand six hundred and seventy-one (1671) failure mode analysis "worksheets" that resulted in four hundred and sixty-eight (468) potential critical items being identified. Comparison was made to the proposed NASA Post 51-L baseline (as of 31 December 1987) which consisted of four hundred and thirty-five (435) FMEAs and one hundred and fifty-eight (158) CIL items. Differences between the number of IOA worksheets and NASA FMEAs resulted from different levels of analysis (e.g. grouping components into one FMEA versus a worksheet for each component), failure modes not being identified within the original analysis, and the fact that two different schematic sets were used (NASA used Rockwell International assembly drawings and IOA used the Rockwell International integrated schematics). Figure 1 presents a comparison of the proposed Post 51-L NASA baseline, with the IOA recommended baseline.

The issues arose due to differences between the NASA and IOA interpretation of the FMEA/CIL preparation instructions, definitions of screen detectability, and some ignorance of flight procedures on the part of IOA. After comparison, there were no discrepancies found that were not already identified by NASA, and the remaining issues are the result of the differences in the schematics used by the NASA and IOA.

EPD&C ASSESSMENT SUMMARY			
	IOA	NASA	ISSUES
FMEA	435	435	0
CIL	158	158	0

MDDA			
	IOA	NASA	ISSUES
FMEA	57	57	0
CIL	27	27	0

MPCA			
	IOA	NASA	ISSUES
FMEA	44	44	0
CIL	6	6	0

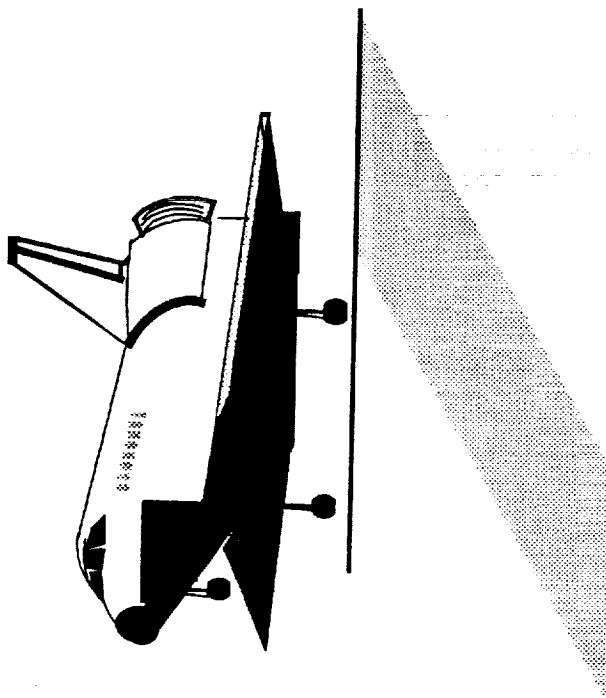
MMCA			
	IOA	NASA	ISSUES
FMEA	28	28	0
CIL	16	16	0

APCA 4-6			
	IOA	NASA	ISSUES
FMEA	30	30	0
CIL	12	12	0

APCA 1-3			
	IOA	NASA	ISSUES
FMEA	16	16	0
CIL	5	5	0

ALCA			
	IOA	NASA	ISSUES
FMEA	12	12	0
CIL	6	6	0

MDPC&D			
	IOA	NASA	ISSUES
FMEA	44	44	0
CIL	24	24	0



AMCA			
	IOA	NASA	ISSUES
FMEA	6	6	0
CIL	3	3	0

FPCA			
	IOA	NASA	ISSUES
FMEA	24	24	0
CIL	7	7	0

FLCA			
	IOA	NASA	ISSUES
FMEA	32	32	0
CIL	7	7	0

FMCA			
	IOA	NASA	ISSUES
FMEA	3	3	0
CIL	0	0	0

AGDA			
	IOA	NASA	ISSUES
FMEA	23	23	0
CIL	4	4	0

FDPC&D			
	IOA	NASA	ISSUES
FMEA	109	109	0
CIL	37	37	0

MISC			
	IOA	NASA	ISSUES
FMEA	12	12	0
CIL	9	9	0

Figure 1 - ELECTRICAL POWER DISTRIBUTION & CONTROL
FMEA/CIL ASSESSMENT

2.0 INTRODUCTION

2.1 Purpose

The 51-L Challenger accident prompted the NASA to readdress safety policies, concepts, and rationale being used in the National Space Transportation System (NSTS). The NSTS Office has undertaken the task of reevaluating the FMEA/CIL for the Space Shuttle design. The MDAC is providing an independent assessment of the proposed Post 51-L Orbiter FMEA/CIL for completeness and technical accuracy.

2.2 Scope

The scope of the independent FMEA/CIL assessment activity encompasses those Shuttle Orbiter subsystems and GFE hardware identified in the Space Shuttle Independent FMEA/CIL Assessment Contractor Statement of Work. Each subsystem analysis addresses hardware, functions, internal and external interfaces, and operational requirements for all mission phases.

2.3 Analysis Approach

The independent analysis approach is a top-down analysis utilizing as-built drawings to breakdown the respective subsystem into components and low-level hardware items. Each hardware item is evaluated for failure mode, effects, and criticality. These data are documented in the respective subsystem analysis report, and are used to assess the proposed Post 51-L NASA and Prime Contractor FMEA/CIL. The IOA analysis approach is summarized in the following Steps 1.0 through 3.0. Step 4.0 summarizes the assessment of the NASA and Prime Contractor FMEA/CIL which is documented in this report.

Step 1.0 Subsystem Familiarization

- 1.1 Define subsystem functions
- 1.2 Define subsystem components
- 1.3 Define subsystem specific ground rules and assumptions

Step 2.0 Define subsystem analysis diagram

- 2.1 Define subsystem
- 2.2 Define major assemblies
- 2.3 Develop detailed subsystem representations

Step 3.0 Failure events definition

- 3.1 Construct matrix of failure modes
- 3.2 Document IOA analysis results

Step 4.0 Compare IOA analysis data to NASA FMEA/CIL

- 4.1 Resolve differences**
- 4.2 Review in-house**
- 4.3 Document assessment issues**
- 4.4 Forward findings to Project Manager**

2.4 Ground Rules and Assumptions

The ground rules and assumptions used in the IOA are defined in Appendix B.

3.0 SUBSYSTEM DESCRIPTION

3.1 Design and Function

The EPD&C subsystem starts at the outputs of the three fuel cells in the EPG subsystem and ends at the using subsystems. DC power from each fuel cell is routed through two wires to one of three main and one of three essential busses. Each main bus can be tied to either of the other two main busses through power contactors and each essential bus is also connected to the other two main busses through diodes and Remote Power Controllers (RPCs). Nine control busses are connected to the three main busses through diodes and RPCs with each control bus receiving power from two main busses. A control bus can be connected to the remaining main bus when the appropriate circuit breaker is closed. Each one of three Orbital Maneuvering Subsystem/Reaction Control Subsystem (OMS/RCS) DC busses are powered by two of three main busses through RPCs and diodes. Three DC busses to the payload (Payload Cabin, Payload Aux, and Payload Emergency busses) are powered through RPCs and diodes from Main DC busses A and B. Larger payload DC loads are powered through power contactors from Main DC busses B and C and Fuel Cell #3.

AC power is generated by connecting each main DC bus to three of nine single-phase invertors, resulting in three three-phase AC busses. The three AC busses are connected to various loads through circuit breakers. These AC busses are further connected to three RCS/OMS AC busses, three Payload Bay Door (PLBD) AC busses, and three Payload Bay Mechanical (PLBM) AC busses.

3.2 Assemblies Description

The EPD&C hardware performs the functions of distributing, sensing, and controlling DC power and inverting, distributing, sensing, and controlling AC power throughout the Orbiter. The EPD&C subsystem is broken down and described by the following fourteen assembly types:

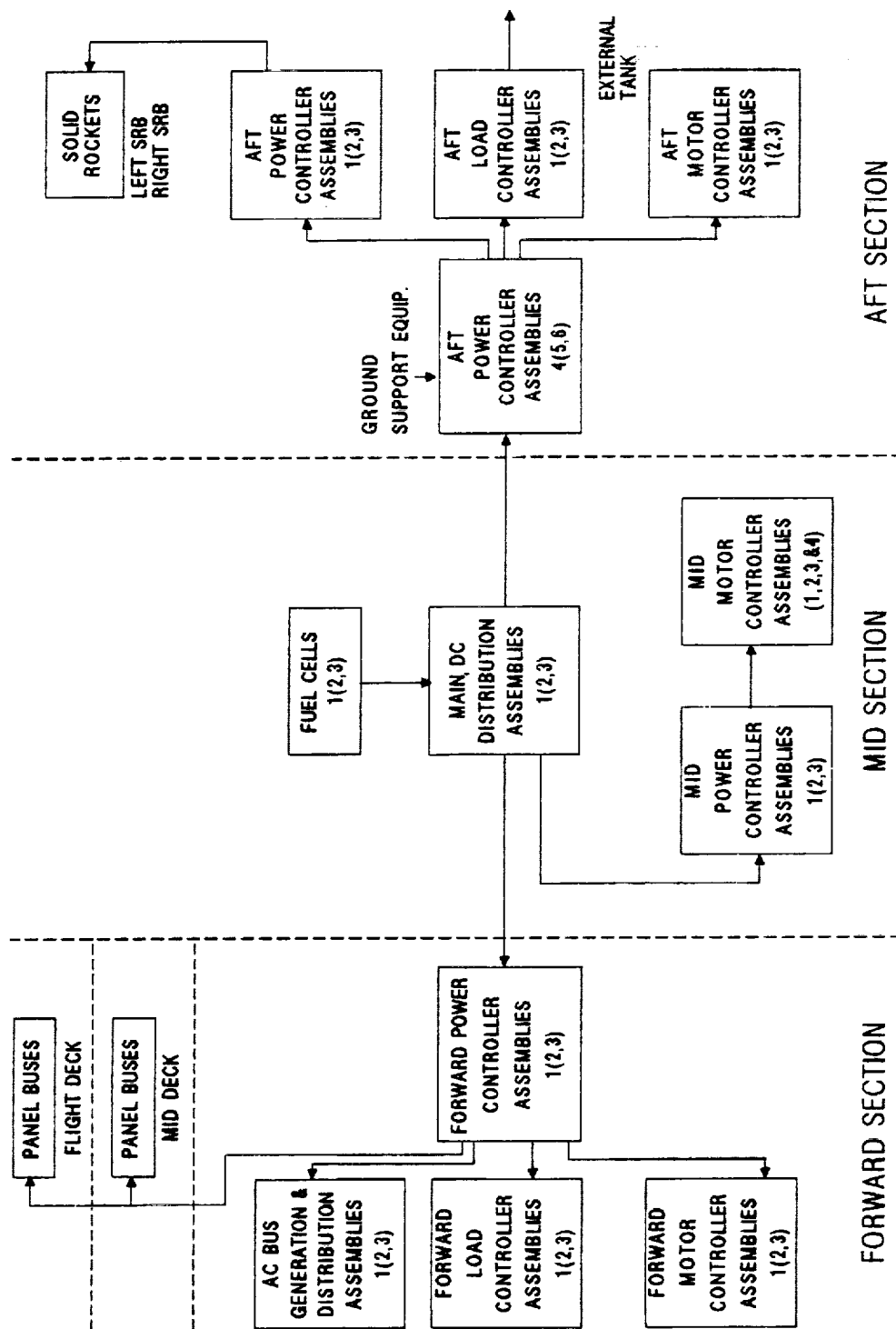
1. Three (3) Main DC Distribution Assemblies (MDDAs) connect the fuel cell outputs through power contactors to the three main DC busses and through diodes and fuses via Panel R1A1 to the three essential busses. Power contactors on the MDDAs allow tying the main busses together. Bus voltage and current levels can be measured directly on Panel F9A2 meters or observed indirectly via General Purpose Computer (GPC) output display via signal conditioners and Multiplexer/Demultiplexers (MDMs). Main and essential DC bus power is connected through fuses to the other assemblies in the system.

2. Three (3) Mid Power Control Assemblies (MPCAs) contain RPCs to connect main DC bus power to MMCAs, Payload busses (Cabin, Aux, and Emergency), and to essential busses. There are also RPCs which connect Pre-Flight Test Busses to MDDAs which allow Ground Support Equipment (GSE) control and monitor of fuel cells and main DC bus ties.
3. Four (4) Mid Motor Control Assemblies (MMCA) contain relays to connect the three PLBM and three PLBD AC busses to the three main AC busses. DC power is also routed to the Payload Bay motors and relays.
4. Three (3) Aft Power Control Assemblies (APCA-4, APCA-5, and APCA-6) contain RPCs that connect power to the three RCS/OMS DC busses, AMCA, essential busses, and control GSE power to the MMDAs. GSE power is distributed from these assemblies through power contactors. DC power is also routed through fused connections to the ALCAs and the other three APCAs.
5. Three (3) Aft Power Control Assemblies (APCA-1, APCA-2, and APCA-3) contain RPCs that power Master Event Controllers #1 and #2. Fused DC power to the Payload Bay is routed through these assemblies also.
6. Three (3) Aft Load Control Assemblies (ALCAs) connect Main DC Bus power to various subsystems. They also contain Hybrid Device Controllers to connect GSE power to the essential busses.
7. Three (3) Aft Motor Control Assemblies (AMCA) connect Main DC Bus power through diodes to the three RCS/OMS DC busses. They also contain the origin of the RCS/OMS AC busses.
8. Three (3) Forward Power Control Assemblies (FPCAs) contain the circuitry to connect the three main DC busses to the nine control busses. DC power is provided to the AC inverters through fuses and latching relays, RPCs are used to control DC power to FMCAs and fused DC power is provided to the FLCAs.
9. Three (3) Forward Load Control Assemblies (FLCAs) contain Hybrid Device Controllers to control the nine AC inverters and to allow GSE control of the same inverters.
10. Three (3) Forward Motor Control Assemblies (FMCAs) route AC and DC power to various subsystems.
11. Three (3) AC Generation & Distribution Assemblies (AGDAs) provide control and power circuits to the nine AC inverters. Over/under voltage sensors allow inverters to be monitored and disconnected from the AC Bus system.

12. The Flight Deck Panel Controls and Displays (FDPC&D) perform the switching and certain monitoring functions for the routing of power to all subsystems. These panels include L4, R13, R15, R1, R2, 013, 014, 015, 016, 017, 019, F9, F1, F6, C3, A11, A12, A15, and A6.
13. The Mid Deck Panel Controls and Displays (MDPC&D) perform the switching and monitoring functions for power to the inverters and various subsystems. These panels include M030F, M052J, M013Q, and MA73C.
14. The Master Event Controllers #1 and #2, certain channels in the Annunciator Control Assemblies, and Current Sensors are grouped in this last category for convenience.

3.3 Hierarchy

Figure 2 illustrates the hierarchy of the EPD&C hardware and the corresponding subassemblies.



ELECTRICAL POWER DISTRIBUTION BLOCK DIAGRAM

Figure 2 - ELECTRICAL POWER DISTRIBUTION & CONTROL SUBSYSTEM OVERVIEW

4.0 ASSESSMENT RESULTS

The IOA analysis of the EPD&C hardware initially generated one thousand six hundred and seventy-one (1671) failure mode analysis worksheets and identified four hundred and sixty-eight (468) Potential Critical Items (PCIs) before starting the assessment process. In order to facilitate comparison, one hundred and eighty-four (184) additional failure mode analysis worksheets were generated. These analysis results were compared to the proposed NASA Post 51-L baseline of four hundred and thirty-five (435) FMEAs and one hundred and fifty-eight (158) CIL items, as of 31 December 1987. Differences between the number of IOA worksheets and NASA FMEAs resulted from different levels of analysis (e.g. grouping components into one FMEA versus a worksheet for each component), failure modes not being identified within the original analysis, and that two different schematic sets were used (NASA used Rockwell International assembly drawings and IOA used the Rockwell International Integrated Schematics).

Table I presents a summary of the quantity of NASA FMEAs assessed, versus the recommended IOA baseline, and any issues identified. The unmapped IOA column is the raw number of IOA failure modes. The mapped IOA column is the number of IOA failure modes after they have been mapped onto the NASA FMEAs. The issues column is the IOA failure modes that were unable to be mapped onto NASA FMEAs.

Table II presents a summary of the quantity of NASA CIL items assessed, versus the recommended IOA baseline, and any issues identified.

Tables III and IV present a summary of the IOA recommended failure criticalities and critical items for the Post 51-L FMEA baseline, respectively. Further discussion of each of these subdivisions and the applicable failure modes and critical items is provided in subsequent paragraphs.

Table V presents the scheme for assigning IOA assessment and analysis worksheet numbers.

Appendix C presents the detailed assessment worksheets for each failure mode. Appendix D presents the NASA Critical Items and corresponding IOA worksheet ID. Appendix E contains IOA analysis worksheets supplementing previous analysis results reported in Space Transportation System Engineering and Operations Support (STSEOS) Working Paper No. 1.0-WP-VA86001-28, Analysis of the Electrical Power Distribution and Control Subsystem, 3, April 1987. Appendix F provides a cross reference between the NASA FMEA and corresponding IOA worksheet(s). IOA recommendations are also summarized.

TABLE I Summary of IOA FMEA Assessment					
EPD&C Subsystems	IOA Unmapped	IOA Mapped	NASA	ISSUES	NOTES
MDDA	212	62	57	4	(1, 2)
MPCA	172	44	44	0	
MMCA	72	28	28	0	(3)
APCA (4-6)	88	30	30	0	(1)
APCA (1-3)	86	40	16	24	
ALCA	43	12	12	0	
AMCA	21	6	6	0	
FPCA	220	30	24	6	
FLCA	212	32	32	0	
FMCA	3	3	3	0	
AGDA	206	23	23	0	
FDPC&D	344	123	109	14	
MDPC&D	146	44	44	0	
MISC	30	12	12	0	
TOTALS	1855	489	440	48	

TABLE II Summary of IOA CIL Assessment				
EPD&C Subsystems	IOA Mapped	NASA	ISSUES	NOTES
MDDA	27	27	0	(1)
MPCA	6	6	0	
MMCA	16	16	0	(3)
APCA (4-6)	12	12	0	(1)
APCA (1-3)	5	5	0	
ALCA	6	6	0	
AMCA	3	3	0	
FPCA	7	7	0	
FLCA	7	7	0	
FMCA	0	0	0	
AGDA	4	4	0	
FDPC&D	37	37	0	
MDPC&D	24	24	0	
MISC	9	9	0	
TOTALS	163	163	0	

NOTES:

- (1) These two subsystems share three (3) FMEAs/CILs.
- (2) NASA deleted one (1) FMEA that IOA had not.
- (3) This subsystem has two (2) FMEAs/CILs that NASA covered in a different subsystem (05-6EB).

TABLE III Summary of IOA Recommended Failure Criticalities							
Criticality:	1/1	2/1R	2/2	3/1R	3/2R	3/3	TOTAL
MDDA	3	13	1	25	-	19	61
MPCA	-	3	-	17	3	21	44
MMCA	-	15	-	8	-	5	28
APCA (4-6)	1	2	-	13	-	14	30
APCA (1-3)	-	2	-	14	2	22	40
ALCA	2	1	-	8	-	1	12
AMCA	-	-	-	3	-	3	6
FPCA	1	3	-	8	-	18	30
FLCA	1	1	-	14	-	16	32
FMCA	-	-	-	-	-	3	3
AGDA	-	3	-	10	-	10	23
FDPC&D	3	23	2	40	4	51	123
MDPC&D	-	16	-	8	1	19	44
MISC	1	7	-	1	1	2	12
TOTAL	12	89	3	169	11	204	488

TABLE IV Summary of IOA Recommended Critical Items							
Criticality:	1/1	2/1R	2/2	3/1R	3/2R	3/3	TOTAL
MDDA	3	13	1	10	-	-	27
MPCA	-	3	-	3	-	-	6
MMCA	-	15	-	1	-	-	16
APCA (4-6)	1	2	-	9	-	-	12
APCA (1-3)	-	2	-	3	-	-	5
ALCA	2	1	-	3	-	-	6
AMCA	-	-	-	3	-	-	3
FPCA	1	3	-	3	-	-	7
FLCA	1	1	-	5	-	-	7
FMCA	-	-	-	-	-	-	-
AGDA	-	3	-	1	-	-	4
FDPC&D	3	23	2	9	-	-	37
MDPC&D	-	16	-	8	-	-	24
MISC	1	7	-	1	-	-	9
TOTAL	12	89	3	59	-	-	163

TABLE V IOA Worksheet Numbers	
System	IOA ID Number
MDDA	5010-5030, 5059-5065, 5085-5088, 5100, 5101, 5104, 5105, 5129-5155, 5190-5196, 5208-5211, 5232, 5233, 5242-5244, 5312-5317, 5320-5339, 5350-5366, 5395-5402, 5422-5424, 5436-5440, 5477-5497, 5542-5561, 5592-5611, 6683X-6686X
MPCA	5031-5046, 5102, 5103, 5117, 5118, 5156-5171, 5234-5241, 5264-5305, 5379-5394, 5441-5444, 5461-5476, 5526-5541, 5630-5645, 5648, 5649, 5653-5655, 6671X
MMCA	5980-5995, 6156-6175, 6336-6351, 6676X-6679X, 6707X, 6708X
APCA (4-6)	5000-5009, 5106-5108, 5112, 5113, 5119-5128, 5245-5247, 5251, 5252, 5340-5349, 5445-5447, 5451, 5452, 5498-5505, 5512, 5513, 5565-5572, 5576, 5577, 5586, 5587, 5614-5621 5646, 5647, 5656-5658, 6709X, 6710X
APCA (1-3)	5186-5189, 5375-5378, 6360-6369, 6554-6557, 6562-6573, 6578-6609, 6622-6629
ALCA	5506, 5507, 5563, 5564, 5612, 5613, 6530-6553, 6558-6561 6658-6662
AMCA	5514-5517, 5578-5585, 6680X-6682X
FPCA	5089-5096, 5212-5219, 5425-5429, 5508, 5562, 5591, 5650-5652, 5686-5713, 5732-5787, 5861-5884, 6032-6061, 6212-6241, 6380-6385, 6691X
FLCA	5659-5676, 5714-5731, 5839-5860, 5899-5904, 6004-6031, 6074-6079, 6184-6211, 6254-6257, 6386-6465, 6697X, 6698X
FMCA	6673X-6675X
AGDA	5885-5896, 5905-5930, 5935-5958, 6062-6073, 6086-6135, 6242-6253, 6264-6313, 6492-6500, 6687X, 6688X
FDPC&D	5047-5058, 5066-5071, 5074-5081, 5172-5185, 5197-5200, 5203, 5204, 5253-5263, 5306-5311, 5318, 5319, 5367-5374, 5403-5414, 5417, 5418, 5453-5460, 5518-5525, 5622-5629, 5677-5685, 5788-5838, 5897, 5898, 5931-5934, 5959, 5962-5965, 5996-6003, 6080-6085, 6176-6183, 6258-6263, 6314, 6315, 6318, 6319, 6352-6359, 6370-6379, 6466-6491, 6574-6577, 6610-6621, 6630-6641, 6644, 6647-6657, 6672X, 6690X, 6692X-6696X, 6703X-6706X

Table V IOA Worksheet Numbers (continued)	
System	IOA ID Number
MDPC&D	5072, 5073, 5082-5084, 5097-5099, 5109-5111, 5114-5116 5201, 5202, 5205-5207, 5220-5231, 5248-5250, 5415, 5416, 5419-5421, 5430-5435, 5448-5450, 5509-5511, 5573-5575, 5588-5590, 5960, 5961, 5966-5979, 6136-6155, 6316, 6317, 6320-6335, 6512-6529
MISC	6501-6511, 6642, 6643, 6645, 6646, 6663-6670, 6689X, 6699X-6702X

4.1 Assessment Results - Main DC Distribution Assemblies

The IOA analysis of the Main DC Distribution Assemblies generated one hundred and ninety-nine (199) failure mode worksheets and identified one hundred and six (106) Potential Critical Items (PCIs) before starting the assessment. During the assessment, an additional thirteen (13) failure mode worksheets were generated. The two hundred and twelve (212) IOA worksheets map into fifty-seven (57) NASA FMEAs of which twenty-seven (27) are CILs. Of the NASA FMEAs, three (3) are criticality 1/1, thirteen (13) are criticality 2/1R, one (1) is criticality 2/2, twenty-five (25) are criticality 3/1R, and fifteen (15) are criticality 3/3. IOA has four (4) worksheets, all criticality 3/3, that do not map into NASA FMEAs. However, these components are test points on the assemblies and in the current configuration are non-critical. IOA recommends no action on them until they are actually used in a flight circuit. Three (3) NASA FMEA/CILs (05-6-2008A-1, 05-6-2008B-1, and 05-6-2008C-1) contain components that are also on the Aft Power Control Assemblies as noted in Tables I and II. IOA has one (1) additional worksheet that maps into a FMEA that NASA deleted. The IOA has no issues with the NASA FMEA/CIL reevaluation for these assemblies.

4.2 Assessment Results - Mid Power Control Assemblies

The IOA analysis of the Mid Power Control Assemblies generated one hundred and fifty-nine (159) failure mode worksheets and identified twenty-one (21) PCIs before starting the assessment. During the assessment, an additional thirteen (13) failure mode worksheets were generated. The one hundred and seventy-two (172) IOA worksheets map into forty-four (44) NASA FMEAs of which six (6) are CILs. Of the NASA FMEAs, three (3) are criticality 2/1R, seventeen (17) are criticality 3/1R, three (3) are criticality 3/2R, and twenty-one (21) are criticality 3/3. The IOA has no issues with the NASA FMEA/CIL reevaluation for these assemblies.

4.3 Assessment Results - Mid Motor Control Assemblies

The IOA analysis of the Mid Motor Control Assemblies generated fifty-two (52) failure mode worksheets and identified forty (40) PCIs before starting the assessment. During the assessment, an additional twenty (20) failure mode worksheets were generated. The seventy-two (72) IOA worksheets map into twenty-eight (28) NASA FMEAs of which sixteen (16) are CILs. Of the NASA FMEAs, fifteen (15) are criticality 2/1R, eight (8) are criticality 3/1R, and five (5) are criticality 3/3. Twenty-four (24) of the original IOA analysis worksheets map into two (2) NASA FMEA/CILs (05-6EB-2004-1, and -2) that NASA covers in the Payload Bay Doors/EPD&C Subsystem as noted in Tables I and II. The IOA has no issues with the NASA FMEA/CIL reevaluation for these assemblies.

4.4 Assessment Results - Aft Power Control Assemblies 4, 5, & 6

The IOA analysis of the Aft Power Control Assemblies 4, 5, and 6 generated eighty (80) failure mode worksheets and identified twenty-one (21) PCIs before starting the assessment. During the assessment, an additional eight (8) failure mode worksheets were generated. The eighty-eight (88) IOA worksheets map into thirty (30) NASA FMEAs of which twelve (12) are CILs. Of the NASA FMEAs, one (1) is identified as criticality 1/1, two (2) are criticality 2/1R, thirteen (13) are criticality 3/1R, and fourteen (14) are criticality 3/3. Three (3) NASA FMEA/CILs (05-6-2008A-1, 05-6-2008B-1, and 05-6-2008C-1) contain components that are also on the Main DC Distribution Assemblies as noted in Tables I and II. The IOA has no issues with the NASA FMEA/CIL reevaluation for these assemblies.

4.5 Assessment Results - Aft Power Control Assemblies 1, 2, & 3

The IOA analysis of the Aft Power Control Assemblies 1, 2, and 3 generated seventy-four (74) failure mode worksheets and identified twenty-six (26) PCIs before starting the assessment. During the assessment, an additional twelve (12) failure mode worksheets were generated. The eighty-six (86) IOA worksheets map into sixteen (16) NASA FMEAs of which five (5) are CILs. Of the NASA FMEAs, two (2) are criticality 2/1R, six (6) are criticality 3/1R, two (2) are criticality 3/2R, and six (6) are criticality 3/3. The IOA has eight (8) criticality 3/1R non-PCI and sixteen (16) criticality 3/3 worksheets that do not map into NASA FMEAs. The NASA EPD&C Subsystem Manager was not sure whether these components were already reevaluated. The discrepancy is the result of NASA using the Rockwell International assembly drawings and the IOA using the Rockwell International integrated schematics. IOA recommends that these components be added to the FMEA/CIL process, unless they are already included in the Solid Rocket Booster FMEAs reevaluation.

4.6 Assessment Results - Aft Load Control Assemblies

The IOA analysis of the Aft Load Control Assemblies generated thirty-nine (39) failure mode worksheets and identified fourteen (14) PCIs before starting the assessment. During the assessment, an additional four (4) failure mode worksheets were generated. The forty-three (43) IOA worksheets map into twelve (12) NASA FMEAs of which six (6) are CILs. Of the NASA FMEAs, two (2) are criticality 1/1, one (1) is criticality 2/1R, eight (8) are criticality 3/1R, and one (1) is criticality 3/3. The IOA has no issues with the NASA FMEA/CIL reevaluation for these assemblies.

4.7 Assessment Results - Aft Motor Control Assemblies

The IOA analysis of the Aft Motor Control Assemblies generated twelve (12) failure mode worksheets and identified twelve (12) PCIs before starting the assessment. During the assessment, an additional nine (9) failure mode worksheets were generated. The twenty-one (21) IOA worksheets map into six (6) NASA FMEAs of which three (3) are CILs. Of the NASA FMEAs, three (3) are criticality 3/1R and three are criticality 3/3. The IOA has no issues with the NASA FMEA/CIL reevaluation for these assemblies.

4.8 Assessment Results - Forward Power Control Assemblies

The IOA analysis of the Forward Power Control Assemblies generated two hundred and one (201) failure mode worksheets and identified fifty-seven (57) PCIs before starting the assessment. During the assessment, an additional nineteen (19) failure mode worksheets were generated. The two hundred and twenty (220) IOA worksheets map into twenty-four (24) NASA FMEAs of which seven (7) are CILs. Of the NASA FMEAs, one (1) is criticality 1/1, three (3) are criticality 2/1R, eight (8) are criticality 3/1R, and twelve (12) are criticality 3/3. The IOA has six (6) criticality 3/3 worksheets that do not map into NASA FMEAs. However, these components are test points on the assemblies and in the current configuration are non-critical. IOA recommends no action on them until they are actually used in a flight circuit. The IOA has no issues with the NASA FMEA/CIL reevaluation for these assemblies.

4.9 Assessment Results - Forward Load Control Assemblies

The IOA analysis of the Forward Load Control Assemblies generated two hundred and ten (210) failure mode worksheets and identified nine (9) PCIs before starting the assessment. During the assessment, two (2) additional failure mode worksheets were generated. The two hundred and twelve (212) IOA worksheets map into thirty-two (32) NASA FMEAs of which seven (7) are CILs. Of the NASA FMEAs, one (1) is criticality 1/1, one (1) is criticality 2/1R, fourteen (14) are criticality 3/1R, and sixteen (16) are criticality 3/3. The IOA has no issues with the NASA FMEA/CIL reevaluation for these assemblies.

4.10 Assessment Results - Forward Motor Control Assemblies

The IOA analysis of the Forward Motor Control Assemblies did not generate any failure mode worksheets and did not identify any PCIs before starting the assessment. During the assessment, three (3) failure mode worksheets were generated which map into three (3) NASA FMEAs of which none were CILs. The FMEAs are all criticality 3/3. The IOA has no issues with the NASA FMEA/CIL reevaluation for these assemblies.

4.11 Assessment Results - AC Generation & Distribution Assemblies

The IOA analysis of the AC Generation and Distribution Assemblies generated one hundred and ninety-five (195) failure mode worksheets and identified eighteen (18) PCIs before starting the assessment. During the assessment, an additional eleven (11) failure mode worksheets were generated. The two hundred and six (206) IOA worksheets map into twenty-three (23) NASA FMEAs of which four (4) are CILs. Of the NASA FMEAs, three (3) are criticality 2/1R, ten (10) are criticality 3/1R, and ten (10) are criticality 3/3. The IOA has no issues with the NASA FMEA/CIL reevaluation for these assemblies.

4.12 Assessment Results - Flight Deck Panel Controls & Displays

The IOA analysis of the Flight Deck Panel Controls and Displays generated two hundred and ninety-eight (298) failure mode worksheets and identified ninety-two (92) PCIs before starting the assessment. During the assessment, an additional forty-six (46) failure mode worksheets were generated. The three hundred and forty-four (344) IOA worksheets map into one hundred and nine (109) NASA FMEAs of which thirty-seven (37) are CILs. Of the NASA FMEAs, three (3) are criticality 1/1, twenty-three (23) are criticality 2/1R, thirty-eight (38) are criticality 3/1R, two (2) are criticality 2/2, four (4) are criticality 3/2R, and thirty-seven (37) are criticality 3/3. Two (2) NASA FMEAs (05-6-2237-3 and 05-6-2238-3), criticality 3/1R non-CIL, were not assessed by the IOA because the FMEA data were not received at the time of this report. IOA expects to agree with NASA on these FMEAs. IOA has fourteen (14) worksheets that do not map into the NASA FMEAs. They are all criticality 3/3 and may be included in another subsystem, perhaps Displays and Controls. IOA recommends that these components be added to the FMEA/CIL process, if they are not already included elsewhere.

4.13 Assessment Results - Mid Deck Panel Controls & Displays

The IOA analysis of the Mid Deck Panel Controls and Displays generated one hundred and twenty-nine (129) failure mode worksheets and identified forty-eight PCIs before starting the assessment. During the assessment, an additional seventeen (17) failure mode worksheets were generated. The one hundred and forty-six (146) IOA worksheets map into forty-four (44) NASA FMEAs of which twenty-four (24) are CILs. Of the NASA FMEAs, sixteen (16) are criticality 2/1R, eight (8) are criticality 3/1R, one (1) is criticality 3/2R, and nineteen (19) are criticality 3/3. The IOA has no issues with the NASA FMEA/CIL reevaluation for these assemblies.

4.14 Assessment Results - MECs, ACAs, and Current Sensors

The IOA analysis of the MECs, ACAs, and Current Sensors generated twenty-three (23) failure mode worksheets and identified four (4) PCIs before starting the assessment. During the assessment, seven additional failure mode worksheets were generated. The thirty (30) IOA worksheets map into twelve (12) NASA FMEAs of which nine (9) are CILs. Of the NASA FMEAs, one (1) is criticality 1/1, seven (7) are criticality 2/1R, one (1) is criticality 3/1R, one (1) is criticality 3/2R, and two (2) are criticality 3/3. The IOA has no issues with the NASA FMEA/CIL reevaluation for these assemblies.

4.15 Assessment Results - Why The IOA and The NASA Agree

The IOA has zero (0) real issues with the NASA FMEA/CIL reevaluation for the following reasons:

- A. The IOA analyst was unable to obtain sufficient data on Crew and Flight procedures. The specific areas appear in Appendix F in the resolution codes.
- B. The NSTS 22206 document was revised three or four times during the analysis and assessment process and the interpretations of it changed during the process. Initially, the IOA analyst and the NASA Subsystem Manager had differing views on the "B" screen detectability issue. The IOA analyst finally agreed with the NASA argument. Many FMEAs were upgraded to CIL status due to the interpretation of the "failures outside the subsystem" rule. The application of this rule was difficult in the EPD&C subsystem because it interfaces with every system on the vehicle (e.g. where does EPD&C stop and another system begin).
- C. The IOA analyst originally did not believe a power bus (the wire or copper strip) could be lost with one failure. A discussion with a Rockwell engineer convinced him otherwise.

5.0 REFERENCES

Reference documentation available from NASA and Rockwell was used in the analysis. The documentation used included the following:

1. VS70-976102 Integrated System Schematic - Electrical Power Distribution and Control Subsystem, Revision 14, 2 July 1986.
2. VS70-948102 Integrated System Schematic - Solid Rocket Booster Subsystem, Revision 14, 26 September 1985.
3. JSC-11174 Space Shuttle Systems Handbook, Volumes 1 and 2, Mission Operations Directorate, Systems Division, Revision C, DCN-5, 13 September 1985.
4. VS70-941102 Integrated System Schematic - Main Propulsion System, Revision E, 26 October 1979.
5. VS70-943102 Integrated System Schematic - Aft Propulsion System, OMS/RCS, Revision D08, 20 May 1986.
6. VS70-942102 Integrated System Schematic - Forward Reaction Control System, Revision H02, 19 September 1984.
7. JSC-19041 Shuttle Booster: Master Events Controller Overview, 1 October 1984.
8. SSR10-26 EPS Bus Loss Listing, Revision 025, 30 September 1985.
9. JSC 12820, STS Operational Flight Rules, Final PCN-3, 28 June 1985.
10. NSTS 22206, Instructions for Preparation of FMEA and CIL, 10 October 1986.
11. Conversations with W. Stagg/NASA EPD&C Subsystem Manager from June 1987 through December 1987.

APPENDIX A ACRONYMS

AC	- Alternating Current
ACA	- Annunciator Control Assembly
AOA	- Abort Once Around
APCA	- Aft Power
ATO	- Abort To Orbit
CIL	- Critical Items List
CRIT	- Criticality
C&W	- Caution and Warning System
DC	- Direct Current
ECLSS	- Environmental Control and Life Support System
EPD&C	- Electrical Power Distribution and Control
EPG	- Electrical Power Generation
FCP	- Fuel Cell Powerplant
FC	- Fuel Cell
FMEA	- Failure Modes and Effects Analysis
FSSR	- Flight System Software Requirement
GAS	- Get Away Special
GPC	- General Purpose Computer
GSE	- Ground Support Equipment
HDC	- Hybrid Driver Controller
Hz	- Hertz (cycles per second)
IOA	- Independent Orbiter Assessment
MEC	- Master Events Controller
MDAC	- McDonnell Douglas Astronautics Company
MDDA	- Main DC Distribution Assembly
MDM	- Multiplexer/Demultiplexer
MDDC	- Main DC Distribution Assembly
MMCA	- Mid Motor Control Assembly
MPCA	- Mid Power Control Assembly
MPCA	- Mid Power Control Assembly
NASA	- National Aeronautics and Space Administration
NA	- Not Applicable
NSTS	- National Space Transportation System
OF	- Operational Forward
OMRSD	- Operational Maintenance Requirements and Specifications Document
PCA	- Power Control Assembly
PCI	- Potential Critical Item
PLS	- Primary Landing Site
PSA	- Power Section Assembly
PRCB	- Program Requirements Control Board
PRSDS	- Power Reactant Storage and Distribution System
RI	- Rockwell International
RCS	- Reactant Control Subsystem
RPC	- Remote Power Controller
RTLS	- Return To Landing Site
STS	- Space Transportation System
TAL	- Transatlantic Abort Landing
TCS	- Thermal Control Subsystem
WRS	- Water Removal Subsystem

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APPENDIX B

DEFINITIONS, GROUND RULES, AND ASSUMPTIONS

- B.1 Definitions**
- B.2 Project Level Ground Rules and Assumptions**
- B.3 Subsystem-Specific Ground Rules and Assumptions**

APPENDIX B
DEFINITIONS, GROUND RULES, AND ASSUMPTIONS

B.1 Definitions

Definitions contained in NSTS 22206, Instructions For Preparation of FMEA/CIL, 10 October 1986, were used with the following amplifications and additions.

INTACT ABORT DEFINITIONS:

RTLS - begins at transition to OPS 6 and ends at transition to OPS 9, post-flight

TAL - begins at declaration of the abort and ends at transition to OPS 9, post-flight

AOA - begins at declaration of the abort and ends at transition to OPS 9, post-flight

ATO - begins at declaration of the abort and ends at transition to OPS 9, post-flight

CREDIBLE (CAUSE) - an event that can be predicted or expected in anticipated operational environmental conditions. Excludes an event where multiple failures must first occur to result in environmental extremes

CONTINGENCY CREW PROCEDURES - procedures that are utilized beyond the standard malfunction procedures, pocket checklists, and cue cards

EARLY MISSION TERMINATION - termination of onorbit phase prior to planned end of mission

EFFECTS/RATIONALE - description of the case which generated the highest criticality

HIGHEST CRITICALITY - the highest functional criticality determined in the phase-by-phase analysis

MAJOR MODE (MM) - major sub-mode of software operational sequence (OPS)

MC - Memory Configuration of Primary Avionics Software System (PASS)

MISSION - assigned performance of a specific Orbiter flight with payload/objective accomplishments including orbit phasing and altitude (excludes secondary payloads such as GAS cans, middeck P/L, etc.)

MULTIPLE ORDER FAILURE - describes the failure due to a single cause or event of all units which perform a necessary (critical) function

OFF-NOMINAL CREW PROCEDURES - procedures that are utilized beyond the standard malfunction procedures, pocket checklists, and cue cards

OPS - software operational sequence

PRIMARY MISSION OBJECTIVES - worst case primary mission objectives are equal to mission objectives

PHASE DEFINITIONS:

PRELAUNCH PHASE - begins at launch count-down Orbiter power-up and ends at moding to OPS Major Mode 102 (liftoff)

LIFTOFF MISSION PHASE - begins at SRB ignition (MM 102) and ends at transition out of OPS 1 (Synonymous with ASCENT)

ONORBIT PHASE - begins at transition to OPS 2 or OPS 8 and ends at transition out of OPS 2 or OPS 8

DEORBIT PHASE - begins at transition to OPS Major Mode 301 and ends at first main landing gear touchdown

LANDING/SAFING PHASE - begins at first main gear touchdown and ends with the completion of post-landing safing operations

APPENDIX B
DEFINITIONS, GROUND RULES, AND ASSUMPTIONS

B.2 IOA Project Level Ground Rules and Assumptions

The philosophy embodied in NSTS 22206, Instructions for Preparation of FMEA/CIL, 10 October 1986, was employed with the following amplifications and additions.

1. The operational flight software is an accurate implementation of the Flight System Software Requirements (FSSRs).

RATIONALE: Software verification is out-of-scope of this task.

2. After liftoff, any parameter which is monitored by system management (SM) or which drives any part of the Caution and Warning System (C&W) will support passage of Redundancy Screen B for its corresponding hardware item.

RATIONALE: Analysis of on-board parameter availability and/or the actual monitoring by the crew is beyond the scope of this task.

3. Any data employed with flight software is assumed to be functional for the specific vehicle and specific mission being flown.

RATIONALE: Mission data verification is out-of-scope of this task.

4. All hardware (including firmware) is manufactured and assembled to the design specifications/drawings.

RATIONALE: Acceptance and verification testing is designed to detect and identify problems before the item is approved for use.

5. All Flight Data File crew procedures will be assumed performed as written, and will not include human error in their performance.

RATIONALE: Failures caused by human operational error are out-of-scope of this task.

6. All hardware analyses will, as a minimum, be performed at the level of analysis existent within NASA/Prime Contractor Orbiter FMEA/CILs, and will be permitted to go to greater hardware detail levels but not lesser.

RATIONALE: Comparison of IOA analysis results with other analyses requires that both analyses be performed to a comparable level of detail.

7. Verification that a telemetry parameter is actually monitored during AOS by ground-based personnel is not required.

RATIONALE: Analysis of mission-dependent telemetry availability and/or the actual monitoring of applicable data by ground-based personnel is beyond the scope of this task.

8. The determination of criticalities per phase is based on the worst case effect of a failure for the phase being analyzed. The failure can occur in the phase being analyzed or in any previous phase, whichever produces the worst case effects for the phase of interest.

RATIONALE: Assigning phase criticalities ensures a thorough and complete analysis.

9. Analysis of wire harnesses, cables, and electrical connectors to determine if FMEAs are warranted will not be performed nor FMEAs assessed.

RATIONALE: Analysis was substantially complete prior to NSTS 22206 ground rule redirection.

10. Analysis of welds or brazed joints that cannot be inspected will not be performed nor FMEAs assessed.

RATIONALE: Analysis was substantially complete prior to NSTS 22206 ground rule redirection.

11. Emergency system or hardware will include burst discs and will exclude the EMU Secondary Oxygen Pack (SOP), pressure relief valves and the landing gear pyrotechnics.

RATIONALE: Clarify definition of emergency systems to ensure consistency throughout IOA project.

APPENDIX B
DEFINITIONS, GROUND RULES, AND ASSUMPTIONS

B.3 EPD&C-Specific Ground Rules and Assumptions

1. The failure modes of a resistor shorting (e.g. little or zero resistance) and shorting to ground are not considered for all resistors in this analysis.

RATIONALE: A shorted resistor will still conduct current to the connected device. All Orbiter electrical components in this subsystem have built-in over-current protection and will continue to operate. A resistor shorting to ground has the same effect as a resistor opening, that is no current will be conducted to the rest of the circuit.

2. The failure modes of most switches, relays, power contactors, hybrid device controllers and remote power controllers are either a) fails open or off or b) fails closed or on. The failure modes a) fails to transfer or b) inadvertent transfer are specified only when the controlled subsystem functions would be adversely effected and specifically cause a higher criticality rating.

RATIONALE: Criticalities are assigned based on hardware and functional effects. The major percentage of the above components are doubly or triply, redundant in hardware and function. The functional failure of a component has more weight in determining its criticality than the hardware failure. If a switch fails to transfer or inadvertently transfers, it is either failed on and closed or failed off and open.

3. The assumption stated in 22206 that all other subsystems are operational within specifications is not used in this analysis where one or more failures in these subsystems would raise the criticality of the component analyzed.

RATIONALE: Several subsystems in the Orbiter have never been or are not planned to be used in the near future during an actual flight. Examples include but are not limited to, the BFS, fuel cell shutdown and restart, DC bus ties, and RMS jettison. Criticalities are assigned to the components which supply and control power to these functions as if they are required.

4. All components directly related to fuel cell operation are assigned criticalities based on only one fuel cell failing.

RATIONALE: The EPD&C/EPG analysis was conducted under the assumption that two fuel cells had already failed. Therefore, the highest criticalities on fuel cell operations have already been assigned.

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APPENDIX C DETAILED ASSESSMENT

This section contains the IOA assessment worksheets generated during the assessment of this subsystem. The information on these worksheets facilitates the comparison of the NASA FMEA/CIL (Pre and Post 51-L) to the IOA detailed analysis worksheets included in Appendix E. Each of these worksheets identifies the NASA FMEA being assessed, corresponding MDAC Analysis Worksheet ID (Appendix E), hardware item, criticality, redundancy screens, and recommendations. For each failure mode, the highest assessed hardware and functional criticality is compared and discrepancies noted as "N" in the compare row under the column where the discrepancy occurred.

LEGEND FOR IOA ASSESSMENT WORKSHEETS

Hardware Criticalities:

- 1 = Loss of life or vehicle
- 2 = Loss of mission or next failure of any redundant item (like or unlike) could cause loss of life/vehicle
- 3 = All others

Functional Criticalities:

- 1R = Redundant hardware items (like or unlike) all of which, if failed, could cause loss of life or vehicle
- 2R = Redundant hardware items (like or unlike) all of which, if failed, could cause loss of mission

Redundancy Screens A, B and C:

- P = Passed Screen
- F = Failed Screen
- NA = Not Applicable

NASA Data :

- Baseline = NASA FMEA/CIL
- New = Baseline with Proposed Post 51-L Changes

CIL Item :

- X = Included in CIL

Compare Row :

- N = Non compare for that column (deviation)

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5000
NASA FMEA #: 05-6-2389-4

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5000
ITEM: RPC, 7.5A (GSE MAIN A OFF)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5001
NASA FMEA #: 05-6-2389-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5001
ITEM: RPC, 7.5A (GSE MAIN A OFF)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5002
NASA FMEA #: 05-6-2389-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5002
ITEM: RPC, 7.5A (GSE MAIN A ON)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5003
NASA FMEA #: 05-6-2389-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5003
ITEM: RPC, 7.5A (GSE MAIN A ON)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO CONCERNS ABOUT
INADVERTENT POWERING OF THE PREFLIGHT TEST BUS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5004
NASA FMEA #: 05-6-2048-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5004
ITEM: SWITCH, MOTORIZED (GSE PWR CONTROL)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5005
NASA FMEA #: 05-6-2048-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5005
ITEM: SWITCH, MOTORIZED (GSE PWR CONTROL)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA AFTER FURTHER EXAMINATION OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5006
NASA FMEA #: 05-6-2350-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5006
ITEM: RESISTOR, 1.2K (TO GSE PWR CONT)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
ASSESSMENT ID: EPD&C-5007
NASA FMEA #: 05-6-2008A-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5007
ITEM: FUSE, 200A TO MAIN DC DIST ASSY 1

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[N /]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH THE NASA REEVALUATION AS NASA AGREES THAT THIS FAILURE IS 1R2 FOR INTACT ABORT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
ASSESSMENT ID: EPD&C-5008
NASA FMEA #: 05-6-2008A-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5008
ITEM: FUSE, 200A TO MAIN DC DIST ASSY 1

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[N /]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH THE NASA REEVALUATION AS NASA AGREES THAT THIS FAILURE IS 1R2 FOR INTACT ABORT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5009
NASA FMEA #: 05-6-2257-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5009
ITEM: FUSE, 3A TO GSE MONITOR

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5010
NASA FMEA #: 05-6-2354-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5010
ITEM: RESISTOR, 5.1K 1/4W (TO GSE MONITOR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5011
NASA FMEA #: 05-6-2354-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5011
ITEM: RESISTOR, 5.1K 1/4W (TO GSE MONITOR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5012
NASA FMEA #: 05-6-2342-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5012
ITEM: RESISTOR, 5.1K 1/4W (TO MDM OF3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5013
NASA FMEA #: 05-6-2342-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5013
ITEM: RESISTOR, 5.1K 1/4W (TO MDM OF3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5014
NASA FMEA #: 05-6-2336-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5014
ITEM: RESISTOR, 1.2K 2W

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5015
NASA FMEA #: 05-6-2334-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5015
ITEM: RESISTOR, 2K 1/4W (TO C&W)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5016
NASA FMEA #: 05-6-2334-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5016
ITEM: RESISTOR, 14K 1/4W (TO C&W)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
ASSESSMENT ID: EPD&C-5017
NASA FMEA #: 05-6-2008A-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5017
ITEM: FUSE, 200A TO APCA-4

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[N /]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH THE NASA REEVALUATION AS NASA AGREES THAT THIS FAILURE IS 1R2 FOR INTACT ABORT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
ASSESSMENT ID: EPD&C-5018
NASA FMEA #: 05-6-2008A-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5018
ITEM: FUSE, 200A TO APCA-4

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[N /]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH THE NASA REEVALUATION AS NASA AGREES THAT THIS FAILURE IS 1R2 FOR INTACT ABORT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5019
NASA FMEA #: 05-6-2255-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5019
ITEM: FUSE, 5A TO MPCA-1, FPCA-1, APCA-4

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5020
NASA FMEA #: 05-6-2004-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5020
ITEM: SWITCH, MOTORIZED (DC TIE BUS MAIN A)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

CRITICALITY		REDUNDANCY SCREENS			CIL
FLIGHT					ITEM
HDW/FUNC		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER ANALYSIS OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5021
NASA FMEA #: 05-6-2004-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5021
ITEM: SWITCH, MOTORIZED (DC TIE BUS MAIN A)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA RE-EVALUATION CONCERNING TRANSIENTS
AFFECTING THE GPCS DURING DE-ORBIT. HOWEVER BUS TIE IS FLIGHT
RULED OUT DURING ASCENT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5022
NASA FMEA #: 05-6-2260-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5022
ITEM: FUSE, 150A TO DC TIE BUS

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5023
NASA FMEA #: 05-6-2260-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5023
ITEM: FUSE, 150A TO DC TIE BUS

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5024
NASA FMEA #: 05-6-2260-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5024
ITEM: FUSE, 150A TO DC TIE BUS

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/05/87
ASSESSMENT ID: EPD&C-5025
NASA FMEA #: 05-6-2003-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5025
ITEM: SWITCH, MOTORIZED (MAIN DC BUS A F/C PWR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA THAT THIS FAILURE IS 1/1 FOR RTLS ABORT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
ASSESSMENT ID: EPD&C-5026
NASA FMEA #: 05-6-2003-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5026
ITEM: SWITCH, MOTORIZED (MAIN DC BUS A F/C PWR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH THE NASA REEVALUATION AS IOA DID NOT INITIALLY CONSIDER THE LOSS OF AN ESSENTIAL BUS AS A SINGLE FAILURE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5027
NASA FMEA #: 05-6-2270-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5027
ITEM: FUSE, 3A TO DC VOLTMETER

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5028
NASA FMEA #: 05-6-2242-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5028
ITEM: FUSE, 20A TO ESS BUS 1BC

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5029
NASA FMEA #: 05-6-2253-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5029
ITEM: FUSE, 3A TO DC VOLTMETER

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5030
NASA FMEA #: 05-6-2345A-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5030
ITEM: SHUNT, DC AMMETER (TO F/C 1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA AGREES WITH NASA THAT THIS FAILURE IS 1/1 FOR RTLS ABORT DUE TO HELIUM BLOWDOWN VALVES FAILURE AND PROBLEMS WITH OMS FUEL DUMP.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5031
NASA FMEA #: 05-6-2388A-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5031
ITEM: RPC, 7.5A (DC TIE BUS MAIN A)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5032
NASA FMEA #: 05-6-2388A-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5032
ITEM: RPC, 7.5A (DC TIE BUS MAIN A)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO FUEL CELL SAFING CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5033
NASA FMEA #: 05-6-2388B-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5033
ITEM: RPC, 7.5A (DC TIE BUS MAIN A)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5034
NASA FMEA #: 05-6-2388B-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5034
ITEM: RPC, 7.5A (DC TIE BUS MAIN A)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO THIS FAILURE ALONG WITH INADVERTENT POWER ON THE PREFLIGHT TEST BUS WOULD PREVENT A BUS TIE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5035
NASA FMEA #: 05-6-2387A-2

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: EPD&C
MDAC ID: 5035
ITEM: RPC, 7.5A (MAIN DC BUS A F/C PWR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5036
NASA FMEA #: 05-6-2387A-1

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: EPD&C
MDAC ID: 5036
ITEM: RPC, 7.5A (MAIN DC BUS A F/C PWR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO FUEL CELL SAFING CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5037
NASA FMEA #: 05-6-2387B-2

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: EPD&C
MDAC ID: 5037
ITEM: RPC, 7.5A (MAIN DC BUS A F/C PWR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5038
NASA FMEA #: 05-6-2387B-1

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: EPD&C
MDAC ID: 5038
ITEM: RPC, 7.5A (MAIN DC BUS A F/C PWR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO THIS FAILURE ALONG WITH INADVERTENT POWER ON THE PREFLIGHT TEST BUS WOULD DISCONNECT A MAIN DC BUS FROM THE FUEL CELL. IF A BUS TIE COULD NOT BE PERFORMED THE BUS WOULD BE LOST.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5039
NASA FMEA #: 05-6-2207-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5039
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 7/01/87
ASSESSMENT ID: EPD&C-5039A
NASA FMEA #: 05-6-2207-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5039
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5040
NASA FMEA #: 05-6-2207-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5040
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA DUE TO CONCERNS ABOUT INADVERTENT POWERING
OF THE PREFLIGHT TEST BUS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5041
NASA FMEA #: 05-6-2207-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5041
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 7/01/87
ASSESSMENT ID: EPD&C-5041A
NASA FMEA #: 05-6-2207-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5041
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5042
NASA FMEA #: 05-6-2207-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5042
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA DUE TO CONCERNS ABOUT INADVERTENT POWERING OF THE PREFLIGHT TEST BUS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5043
NASA FMEA #: 05-6-2207-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5043
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 7/01/87
ASSESSMENT ID: EPD&C-5043A
NASA FMEA #: 05-6-2207-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5043
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5044
NASA FMEA #: 05-6-2207-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5044
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA DUE TO CONCERNS ABOUT INADVERTENT POWERING
OF THE PREFLIGHT TEST BUS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5045
NASA FMEA #: 05-6-2207-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5045
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA DUE TO FUEL CELL SAFING CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 7/01/87
ASSESSMENT ID: EPD&C-5045A
NASA FMEA #: 05-6-2207-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5045
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5046
NASA FMEA #: 05-6-2207-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5046
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA DUE TO CONCERNS ABOUT INADVERTENT POWERING OF THE PREFLIGHT TEST BUS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/05/87
ASSESSMENT ID: EPD&C-5047
NASA FMEA #: 05-6-2212-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5047
ITEM: SWITCH, TOGGLE SPDT (MAIN BUS TIE A)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NASA HAS REDEFINED THIS FAILURE MODE AS: FAILS OPEN, FAILS CLOSED IN "OFF" POSITION. IOA CONCURS WITH NASA'S REEVALUATION AS THIS IS A STANDBY FUNCTION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/05/87
ASSESSMENT ID: EPD&C-5047A
NASA FMEA #: 05-6-2212-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5047
ITEM: SWITCH, TOGGLE SPDT (MAIN BUS TIE A)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[NA]	[P]	[X] *
IOA	[2 /1R]	[P]	[NA]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]
RECOMMENDATIONS: (If different from NASA)					
	[/]	[]	[]	[]	[] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/05/87
ASSESSMENT ID: EPD&C-5048
NASA FMEA #: 05-6-2212-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5048
ITEM: SWITCH, TOGGLE SPDT (MAIN BUS TIE A)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NASA HAS REDEFINED THIS FAILURE MODE AS: FAILS CLOSED IN "ON" POSITION, SHORTS (CONTACT TO CONTACT). IOA CONCURS WITH NASA'S REEVALUATION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 7/01/87
ASSESSMENT ID: EPD&C-5049
NASA FMEA #: 05-6-2211-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5049
ITEM: SWITCH, TOGGLE SPDT (FC/MN BUS A)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[NA]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA HAS REDEFINED THIS FAILURE MODE AS: FAILS TO TRANSFER TO "OFF", SHORTS TO GROUND, FAILS CLOSED IN "ON". IOA CONCURS WITH NASA'S REEVALUATION DUE TO FUEL CELL SAFING CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/05/87
ASSESSMENT ID: EPD&C-5050
NASA FMEA #: 05-6-2211-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5050
ITEM: SWITCH, TOGGLE SPDT (FC/MN BUS A)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA HAS REDEFINED THIS FAILURE MODE AS: FAILS CLOSED IN "OFF" POSITION. IOA CONCURS WITH NASA'S REEVALUATION AND AGREES THAT THIS FAILURE IS CRIT 1 DURING INTACT ABORT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5051
NASA FMEA #: 05-6-2241-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5051
ITEM: CIRCUIT BREAKER, 5A THERMAL (MAIN A CONTR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5052
NASA FMEA #: 05-6-2241-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5052
ITEM: CIRCUIT BREAKER, 5A THERMAL (MAIN A CONTR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/05/87
ASSESSMENT ID: EPD&C-5053
NASA FMEA #: 05-6-2183-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5053
ITEM: DIODE, ISOLATION 12A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[NA]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[N /]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND" TO THIS FMEA.
IOA CONCURS WITH THE NASA AFTER LEARNING OF THE FUEL CELL SAFING
CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/05/87
ASSESSMENT ID: EPD&C-5054
NASA FMEA #: 05-6-2183-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5054
ITEM: DIODE, ISOLATION 12A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA AFTER FURTHER EXAMINATION OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/05/87
ASSESSMENT ID: EPD&C-5055
NASA FMEA #: 05-6-2184-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5055
ITEM: DIODE, ISOLATION 12A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[NA]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA AFTER LEARNING OF FUEL CELL SAFING CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/05/87
ASSESSMENT ID: EPD&C-5056
NASA FMEA #: 05-6-2184-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5056
ITEM: DIODE, ISOLATION 12A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND" TO THIS FMEA.
IOA CONCURS WITH NASA AFTER FURTHER EXAMINATION OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5057
NASA FMEA #: 05-6-2263-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5057
ITEM: CIRCUIT BREAKER, 5A (MN A CONTR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO FUEL CELL SAFING CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5058
NASA FMEA #: 05-6-2263-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5058
ITEM: CIRCUIT BREAKER, 5A (MN A CONTR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5059
NASA FMEA #: 05-6-2278-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5059
ITEM: FUSE, 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5060
NASA FMEA #: 05-6-2278-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5060
ITEM: FUSE, 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[N /]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO AFTER LEARNING MORE INFORMATION ABOUT EMERGENCY FUNCTIONS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5061
NASA FMEA #: 05-6-2278-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5061
ITEM: FUSE, 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[N /]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO AFTER LEARNING MORE INFORMATION ABOUT EMERGENCY FUNCTIONS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5062
NASA FMEA #: 05-6-2278-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5062
ITEM: FUSE, 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[N /]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO AFTER LEARNING MORE
INFORMATION ABOUT EMERGENCY FUNCTIONS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5063
NASA FMEA #: 05-6-2280-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5063
ITEM: FUSE, 15A TO A6A1 PANEL (FUSE 8) & A14 PANEL
(RCS/OMS HTRS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER EXAMINATION OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5064
NASA FMEA #: 05-6-2601-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5064
ITEM: FUSE, 5A TO RESISTORS TO MN A CONT BUS PWR, ESS
BUS SOURCE 3AB, ESS BUS SOURCE 2CA

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5065
NASA FMEA #: NEW # UNKNOWN

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5065
ITEM: FUSE, 5A TO RMS PWR (FUSE 1), RMS HTRS
(RESISTORS) & RJDA MANF DRS (FUSES 9 & 12)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[N /]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER ANALYSIS OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5066
NASA FMEA #: 05-6-2181-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5066
ITEM: DIODE, ISOLATION 12A (TO CONT BUS BC1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND" TO THIS FMEA.
IOA CONCURS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5067
NASA FMEA #: 05-6-2181-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5067
ITEM: DIODE, ISOLATION 12A (TO CONT BUS BC1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[3 / 3]		[]	[]	[]	[] *
IOA	[3 / 3]		[]	[]	[]	[]
COMPARE	[/]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5068
NASA FMEA #: 05-6-2181-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5068
ITEM: DIODE, ISOLATION 12A (TO CONT BUS BC2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND" TO THIS FMEA.
IOA CONCURS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5069
NASA FMEA #: 05-6-2181-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5069
ITEM: DIODE, ISOLATION 12A (TO CONT BUS BC2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5070
NASA FMEA #: 05-6-2181-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5070
ITEM: DIODE, ISOLATION 12A (TO CONT BUS BC3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND" TO THIS FMEA.
IOA CONCURS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5071
NASA FMEA #: 05-6-2181-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5071
ITEM: DIODE, ISOLATION 12A (TO CONT BUS BC3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5072
NASA FMEA #: 05-6-2225-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5072
ITEM: SWITCH, TOGGLE (DC UTIL PWR MN A)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5073
NASA FMEA #: 05-6-2225-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5073
ITEM: SWITCH, TOGGLE (DC UTIL PWR MN A)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5074
NASA FMEA #: 05-6-2225-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5074
ITEM: SWITCH, TOGGLE (DC UTIL PWR MN A)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5075
NASA FMEA #: 05-6-2225-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5075
ITEM: SWITCH, TOGGLE (DC UTIL PWR MN A)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5076
NASA FMEA #: 05-6-2263-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5076
ITEM: CIRCUIT BREAKER, 5A (MN C CONTR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO FUEL CELL SAFING CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5077
NASA FMEA #: 05-6-2263-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5077
ITEM: CIRCUIT BREAKER, 5A (MN C CONTR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5078
NASA FMEA #: 05-6-2247-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5078
ITEM: CIRCUIT BREAKER, 10A (MN A UTIL PWR 019/M052J)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5079
NASA FMEA #: 05-6-2247-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5079
ITEM: CIRCUIT BREAKER, 10A (MN A UTIL PWR 019/M052J)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5080
NASA FMEA #: 05-6-2261-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5080
ITEM: CIRCUIT BREAKER, 10A (CONT BUS BC1, BC2, BC3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AS A CIRCUIT BREAKER "POP"
IS NOT READILY DETECTABLE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5081
NASA FMEA #: 05-6-2261-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5081
ITEM: CIRCUIT BREAKER, 10A (CONT BUS BC1, BC2, BC3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5082
NASA FMEA #: 05-6-2703-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5082
ITEM: RESISTOR, 1.2K 2W (TO MPCA-1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA
OPERATIONAL STATUS MEASUREMENTS AND THE CREW CAN MONITER THE
MOTOR OPERATION TIME.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5082A
NASA FMEA #: 05-6-2703-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5082
ITEM: RESISTOR, 1.2K 2W (TO MPCA-1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5083
NASA FMEA #: 05-6-2653-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5083
ITEM: SWITCH, TOGGLE SPST (MCA LOGIC MN A MID 1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AS IOA WAS UNAWARE OF THE
"PSYCHOTIC GPC" CONCERN.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5084
NASA FMEA #: 05-6-2653-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5084
ITEM: SWITCH, TOGGLE SPST (MCA LOGIC MN A MID 1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA OPERATIONAL STATUS MEASUREMENTS AND THE CREW CAN MONITER THE MOTOR OPERATION TIME.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5085
NASA FMEA #: 05-6-2006-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5085
ITEM: FUSE, 150A TO FPCA-1

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5086
NASA FMEA #: 05-6-2006-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5086
ITEM: FUSE, 150A TO FPCA-1

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5087
NASA FMEA #: 05-6-2006-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5087
ITEM: FUSE, 150A TO FPCA-1

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5088
NASA FMEA #: 05-6-2354-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5088
ITEM: RESISTOR, 5.1K 1/4W (TO GSE MONITOR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[3 / 3]		[]	[]	[]	[] *
IOA	[3 / 3]		[]	[]	[]	[]
COMPARE	[/]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5089
NASA FMEA #: 05-6-2807-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5089
ITEM: RPC, 5A (FMCA-1 PWR CONT)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5090
NASA FMEA #: 05-6-2807-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5090
ITEM: RPC, 5A (FMCA-1 PWR CONT)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B". GROUND CAN DETERMINE STATE OF RPC VIA OPERATIONAL STATUS MEASUREMENTS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5091
NASA FMEA #: 05-6-2006-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5091
ITEM: FUSE, 150A TO MAIN DC DIST ASSY 1

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5092
NASA FMEA #: 05-6-2006-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5092
ITEM: FUSE, 150A TO MAIN DC DIST ASSY 1

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5093
NASA FMEA #: 05-6-2006-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5093
ITEM: FUSE, 150A TO MAIN DC DIST ASSY 1

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5094
NASA FMEA #: NOT FOUND

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: EPD&C
MDAC ID: 5094
ITEM: RESISTOR, 5.1K TO TEST POINTS

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

THIS COMPONENT HAS NO CONNECTION TO FLIGHT HARDWARE OR IS A TEST POINT. THEREFORE NASA DID NOT INCLUDE IT IN THEIR FMEAS. IOA CONCURS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5095
NASA FMEA #: 05-6-2351-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5095
ITEM: RESISTOR, 1.8K 1/4W (TO SIG COND OF1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5096
NASA FMEA #: 05-6-2294-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5096
ITEM: FUSE, 35A TO FLCA-1

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[1 /1]	[]	[]	[]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA AGREES WITH NASA'S EVALUATION BECAUSE THE IOA ANALYST WAS
UNAWARE OF THE SINGLE STRING FIRE SUPPRESSION SYSTEM.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5097
NASA FMEA #: 05-6-2707-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5097
ITEM: RESISTOR, 1.2K 2W (TO FPCA-1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA
OPERATIONAL STATUS MEASUREMENTS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5097A
NASA FMEA #: 05-6-2707-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5097
ITEM: RESISTOR, 1.2K 2W (TO FPCA-1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/]	[]	[]	[]	[]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5098
NASA FMEA #: 05-6-2657-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5098
ITEM: SWITCH, TOGGLE SPST (MCA LOGIC MN A FWD 1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA OPERATIONAL STATUS MEASUREMENTS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5099
NASA FMEA #: 05-6-2657-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5099
ITEM: SWITCH, TOGGLE SPST (MCA LOGIC MN A FWD 1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5100
NASA FMEA #: 05-6-2295-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5100
ITEM: FUSE, 150A TO MPCA-1

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER EXAMINATION OF THE CIRCUIT. THIS FUSE IS ACTUALLY 100 AMPS WITH THE CORRESPONDING PART NUMBER. AN ERROR WAS MADE IN THE INTEGRATED SCHEMATICS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5101
NASA FMEA #: 05-6-2354-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5101
ITEM: RESISTOR, 5.1K 1/4W (TO GSE MONITOR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5102
NASA FMEA #: 05-6-2803-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5102
ITEM: RPC, 5A (TO MMCA-1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA - IOA UNAWARE OF "PSYCHOTIC GPC" PROBLEM.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5103
NASA FMEA #: 05-6-2803-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5103
ITEM: RPC, 5A (TO MMCA-1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5104
NASA FMEA #: 05-6-2299-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5104
ITEM: FUSE, 35A TO H2/O2 HTR CONT ASSY #1

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5105
NASA FMEA #: 05-6-2299-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5105
ITEM: FUSE, 50A TO H2/O2 HTR CONT ASSY #3

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
ASSESSMENT ID: EPD&C-5106
NASA FMEA #: 05-6-2010-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5106
ITEM: FUSE, 150A TO APCA-1

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA THAT SCREEN "B" IS PASS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5107
NASA FMEA #: 05-6-2293A-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5107
ITEM: FUSE, 100A TO ALCA-1

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

CRITICALITY		REDUNDANCY SCREENS			CIL
FLIGHT					ITEM
HDW/FUNC		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[X] *
IOA	[1 /1]	[P]	[F]	[F]	[X]
COMPARE	[N /N]	[]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA REEVALUATION FOR NOMINAL FLIGHT AND WE BOTH
AGREE ON CRITICALITY 1/1 FOR RTLS ABORT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5108
NASA FMEA #: 05-6-2351-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5108
ITEM: RESISTOR, 1.8K 1/4W (TO SIG COND OA1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5109
NASA FMEA #: 05-6-2701-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5109
ITEM: RESISTOR, 1.2K 2W (TO APCA-4)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA OPERATIONAL STATUS MEASUREMENTS AND THE CREW CAN MONITER THE MOTOR OPERATION TIME.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5109A
NASA FMEA #: 05-6-2701-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5109
ITEM: RESISTOR, 1.2K 2W (TO APCA-4)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5110
NASA FMEA #: 05-6-2651-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5110
ITEM: SWITCH, TOGGLE SPST (MCA LOGIC MN A AFT 1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
THE "B" SCREEN PASSES BECAUSE THE CREW CAN MONITER THE MOTOR
OPERATION TIME.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
 ASSESSMENT ID: EPD&C-5111
 NASA FMEA #: 05-6-2651-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5111
 ITEM: SWITCH, TOGGLE SPST (MCA LOGIC MN A AFT 1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5112
NASA FMEA #: 05-6-2801-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5112
ITEM: RPC, 5A (TO AMCA-1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE RPC STATE WITH THE MCA OPERATIONAL STATUS MEASUREMENT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5113
NASA FMEA #: 05-6-2801-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5113
ITEM: RPC, 5A (TO AMCA-1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5114
NASA FMEA #: 05-6-2704-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5114
ITEM: RESISTOR, 1.2K 2W (TO MPCA-1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)
ADEQUATE [X]
INADEQUATE []

REMARKS:
THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA OPERATIONAL STATUS MEASUREMENTS AND THE CREW CAN MONITER THE MOTOR OPERATION TIME.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5114A
NASA FMEA #: 05-6-2704-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5114
ITEM: RESISTOR, 1.2K 2W (TO MPCA-1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE:	12/08/87	NASA DATA:	
ASSESSMENT ID:	EPD&C-5115	BASELINE	[]
NASA FMEA #:	05-6-2654-1	NEW	[X]
SUBSYSTEM:	EPD&C		
MDAC ID:	5115		
ITEM:	SWITCH, TOGGLE SPST (MCA LOGIC MN A MID 3)		
LEAD ANALYST:	K. SCHMECKPEPER		

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/]	[]	[]	[]	[]	(ADD/DELETE)
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* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE	[X]
INADEQUATE	[]

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA OPERATIONAL STATUS MEASUREMENTS AND THE CREW CAN MONITER THE MOTOR OPERATION TIME.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5116
NASA FMEA #: 05-6-2654-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5116
ITEM: SWITCH, TOGGLE SPST (MCA LOGIC MN A MID 3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AS IOA WAS UNAWARE OF THE
"PSYCHOTIC GPC" CONCERN.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5117
NASA FMEA #: 05-6-2804-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5117
ITEM: RPC, 5A (TO MMCA-3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA - IOA UNAWARE OF "PSYCHOTIC GPC" PROBLEM.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5118
NASA FMEA #: 05-6-2804-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5118
ITEM: RPC, 5A (TO MMCA-3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5119
NASA FMEA #: 05-6-2389-4

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5119
ITEM: RPC, 7.5A (GSE MAIN B OFF)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]
RECOMMENDATIONS: (If different from NASA)					
	[/]	[]	[]	[]	[]
					(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5120
NASA FMEA #: 05-6-2389-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5120
ITEM: RPC, 7.5A (GSE MAIN B OFF)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5121
NASA FMEA #: 05-6-2389-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5121
ITEM: RPC, 7.5A (GSE MAIN B ON)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[3 / 3]		[]	[]	[]	[] *
IOA	[3 / 3]		[]	[]	[]	[]
COMPARE	[/]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5122
NASA FMEA #: 05-6-2389-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5122
ITEM: RPC, 7.5A (GSE MAIN B ON)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO CONCERNS ABOUT
INADVERTENT POWERING OF THE PREFLIGHT TEST BUS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5123
NASA FMEA #: 05-6-2048-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5123
ITEM: SWITCH, MOTORIZED (GSE PWR CONTROL)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5124
NASA FMEA #: 05-6-2048-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5124
ITEM: SWITCH, MOTORIZED (GSE PWR CONTROL)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA AFTER FURTHER EXAMINATION OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
ASSESSMENT ID: EPD&C-5125
NASA FMEA #: 05-6-2008B-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5125
ITEM: FUSE, 200A TO MAIN DC DIST ASSY 2

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[F]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[F]	[X]
COMPARE	[/]	[]	[]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH THE NASA REEVALUATION FOR THE REASONS LISTED IN THE FMEA/CIL. SCREEN "C" DIFFERENCE WAS A TYPO.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
ASSESSMENT ID: EPD&C-5126
NASA FMEA #: 05-6-2008B-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5126
ITEM: FUSE, 200A TO MAIN DC DIST ASSY 2

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[F]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[F]	[X]
COMPARE	[/]	[]	[]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH THE NASA REEVALUATION FOR THE REASONS LISTED IN THE FMEA/CIL. SCREEN "C" DIFFERENCE WAS A TYPO.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5127
NASA FMEA #: 05-6-2257-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5127
ITEM: FUSE, 3A TO GSE MONITOR

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5128
NASA FMEA #: 05-6-2350-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5128
ITEM: RESISTOR, 1.2K (TO GSE PWR CONT)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[3 / 3]		[]	[]	[]	[] *
IOA	[3 / 3]		[]	[]	[]	[]
COMPARE	[/]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5129
NASA FMEA #: 05-6-2354-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5129
ITEM: RESISTOR, 5.1K 1/4W (TO GSE MONITOR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5130
NASA FMEA #: 05-6-2354-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5130
ITEM: RESISTOR, 5.1K 1/4W (TO GSE MONITOR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5131
NASA FMEA #: 05-6-2336-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5131
ITEM: RESISTOR, 1.2K 2W

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5132
NASA FMEA #: 05-6-2342-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5132
ITEM: RESISTOR, 5.1K 1/4W (TO MDM OF3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5133
NASA FMEA #: 05-6-2342-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5133
ITEM: RESISTOR, 5.1K 1/4W (TO MDM OF3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5134
NASA FMEA #: 05-6-2334-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5134
ITEM: RESISTOR, 2K 1/4W (TO C&W)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]
RECOMMENDATIONS: (If different from NASA)					
	[/]	[]	[]	[]	[] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5135
NASA FMEA #: 05-6-2334-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5135
ITEM: RESISTOR, 14K 1/4W (TO C&W)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5136
NASA FMEA #: 05-6-2345B-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5136
ITEM: SHUNT, DC AMMETER (TO F/C 2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[1 /1]	[]	[]	[]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA AGREES WITH NASA DUE TO A CHANGE IN NSTS 22206 CONCERNING
HAZARDS TO POPULATION FROM THE EXTERNAL TANK.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5137
NASA FMEA #: 05-6-2253-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5137
ITEM: FUSE, 3A TO DC VOLTMETER

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5138
NASA FMEA #: 05-6-2270-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5138
ITEM: FUSE, 3A TO DC VOLTMETER

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5139
NASA FMEA #: 05-6-2242-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5139
ITEM: FUSE, 20A TO ESS BUS 2CA

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5140
NASA FMEA #: 05-6-2260-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5140
ITEM: FUSE, 200A TO DC TIE BUS

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C
ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5141
NASA FMEA #: 05-6-2260-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5141
ITEM: FUSE, 200A TO DC TIE BUS

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	A	B	C	CIL ITEM
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5142
NASA FMEA #: 05-6-2260-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5142
ITEM: FUSE, 150A TO DC TIE BUS

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5143
NASA FMEA #: 05-6-2260-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5143
ITEM: FUSE, 150A TO DC TIE BUS

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5144
NASA FMEA #: 05-6-2260-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5144
ITEM: FUSE, 150A TO DC TIE BUS

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5145
NASA FMEA #: 05-6-2255-1

NASA DATA: ---
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5145
ITEM: FUSE, 5A TO MPCA-2, FPCA-2, APCA-5

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
ASSESSMENT ID: EPD&C-5146
NASA FMEA #: 05-6-2008B-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5146
ITEM: FUSE, 200A TO APCA-5

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[F]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[F]	[X]
COMPARE	[/]	[]	[]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH THE NASA REEVALUATION FOR THE REASONS LISTED IN THE FMEA/CIL. SCREEN "C" DIFFERENCE WAS A TYPO.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
ASSESSMENT ID: EPD&C-5147
NASA FMEA #: 05-6-2008B-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5147
ITEM: FUSE, 200A TO APCA-5

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[F]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[F]	[X]
COMPARE	[/]	[]	[]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH THE NASA REEVALUATION FOR THE REASONS LISTED IN THE FMEA/CIL. SCREEN "C" DIFFERENCE WAS A TYPO.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5148
NASA FMEA #: 05-6-2004-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5148
ITEM: SWITCH, MOTORIZED (DC TIE BUS MAIN B)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER ANALYSIS OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5149
NASA FMEA #: 05-6-2004-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5149
ITEM: SWITCH, MOTORIZED (DC TIE BUS MAIN B)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA RE-EVALUATION CONCERNING TRANSIENTS
AFFECTING THE GPCS DURING DE-ORBIT. HOWEVER BUS TIE IS FLIGHT
RULED OUT DURING ASCENT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
ASSESSMENT ID: EPD&C-5150
NASA FMEA #: 05-6-2003-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5150
ITEM: SWITCH, MOTORIZED (MAIN DC BUS B F/C PWR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH THE NASA REEVALUATION AS IOA DID NOT INITIALLY
CONSIDER THE LOSS OF AN ESSENTIAL BUS AS A SINGLE FAILURE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/05/87
ASSESSMENT ID: EPD&C-5151
NASA FMEA #: 05-6-2003-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5151
ITEM: SWITCH, MOTORIZED (MAIN DC BUS B F/C PWR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]
RECOMMENDATIONS: (If different from NASA)					
	[/]	[]	[]	[]	[]
					(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA THAT THIS FAILURE IS 1/1 FOR RTLS ABORT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/05/87
ASSESSMENT ID: EPD&C-5152
NASA FMEA #: 05-6-2003-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5152
ITEM: SWITCH, MOTORIZED (MAIN DC BUS C F/C PWR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA THAT THIS FAILURE IS 1/1 FOR RTLS ABORT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
ASSESSMENT ID: EPD&C-5153
NASA FMEA #: 05-6-2003-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5153
ITEM: SWITCH, MOTORIZED (MAIN DC BUS C F/C PWR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH THE NASA REEVALUATION AS IOA DID NOT INITIALLY
CONSIDER THE LOSS OF AN ESSENTIAL BUS AS A SINGLE FAILURE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5154
NASA FMEA #: 05-6-2004-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5154
ITEM: SWITCH, MOTORIZED (DC TIE BUS MAIN C)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA RE-EVALUATION CONCERNING TRANSIENTS
AFFECTING THE GPCS DURING DE-ORBIT. HOWEVER BUS TIE IS FLIGHT
RULED OUT DURING ASCENT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5155
NASA FMEA #: 05-6-2004-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5155
ITEM: SWITCH, MOTORIZED (DC TIE BUS MAIN C)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER ANALYSIS OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5156
NASA FMEA #: 05-6-2388A-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5156
ITEM: RPC, 7.5A (DC TIE BUS MAIN B)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5157
NASA FMEA #: 05-6-2388A-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5157
ITEM: RPC, 7.5A (DC TIE BUS MAIN B)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO FUEL CELL SAFING CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5158
NASA FMEA #: 05-6-2388B-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5158
ITEM: RPC, 7.5A (DC TIE BUS MAIN B)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5159
NASA FMEA #: 05-6-2388B-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5159
ITEM: RPC, 7.5A (DC TIE BUS MAIN B)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO THIS FAILURE ALONG WITH INADVERTENT POWER ON THE PREFLIGHT TEST BUS WOULD PREVENT A BUS TIE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5160
NASA FMEA #: 05-6-2387A-2

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: EPD&C
MDAC ID: 5160
ITEM: RPC, 7.5A (MAIN DC BUS B F/C PWR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5161
NASA FMEA #: 05-6-2387A-1

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: EPD&C
MDAC ID: 5161
ITEM: RPC, 7.5A (MAIN DC BUS B F/C PWR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO FUEL CELL SAFING CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5162
NASA FMEA #: 05-6-2387B-2

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: EPD&C
MDAC ID: 5162
ITEM: RPC, 7.5A (MAIN DC BUS B F/C PWR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5163
NASA FMEA #: 05-6-2387B-1

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: EPD&C
MDAC ID: 5163
ITEM: RPC, 7.5A (MAIN DC BUS B F/C PWR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO THIS FAILURE ALONG WITH INADVERTENT POWER ON THE PREFLIGHT TEST BUS WOULD DISCONNECT A MAIN DC BUS FROM THE FUEL CELL. IF A BUS TIE COULD NOT BE PERFORMED THE BUS WOULD BE LOST.

REPORT DATE 02/23/88

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APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5164
NASA FMEA #: 05-6-2207-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5164
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 7/01/87
ASSESSMENT ID: EPD&C-5164A
NASA FMEA #: 05-6-2207-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5164
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5165
NASA FMEA #: 05-6-2207-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5165
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA DUE TO CONCERNS ABOUT INADVERTENT POWERING
OF THE PREFLIGHT TEST BUS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5166
NASA FMEA #: 05-6-2207-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5166
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC			REDUNDANCY SCREENS			CIL ITEM
				A	B	C	
NASA	[3 / 3]			[]	[]	[]	[] *
IOA	[3 / 3]			[]	[]	[]	[]
COMPARE	[/]			[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 7/01/87
ASSESSMENT ID: EPD&C-5166A
NASA FMEA #: 05-6-2207-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5166
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5167
NASA FMEA #: 05-6-2207-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5167
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA DUE TO CONCERNS ABOUT INADVERTENT POWERING OF THE PREFLIGHT TEST BUS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5168
NASA FMEA #: 05-6-2207-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5168
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 7/01/87
ASSESSMENT ID: EPD&C-5168A
NASA FMEA #: 05-6-2207-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5168
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5169
NASA FMEA #: 05-6-2207-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5169
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA DUE TO CONCERNS ABOUT INADVERTENT POWERING
OF THE PREFLIGHT TEST BUS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5170
NASA FMEA #: 05-6-2207-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5170
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA DUE TO FUEL CELL SAFING CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 7/01/87
ASSESSMENT ID: EPD&C-5170A
NASA FMEA #: 05-6-2207-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5170
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5171
NASA FMEA #: 05-6-2207-2

NASA DATA: ~~EPD&C-5171~~
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5171
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA DUE TO CONCERNS ABOUT INADVERTENT POWERING OF THE PREFLIGHT TEST BUS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5172
NASA FMEA #: 05-6-2263-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5172
ITEM: CIRCUIT BREAKER, 5A (MN B CONTR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO FUEL CELL SAFING CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5173
NASA FMEA #: 05-6-2263-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5173
ITEM: CIRCUIT BREAKER, 5A (MN B CONTR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88 NASA DATA:
 ASSESSMENT ID: EPD&C-5174 BASELINE []
 NASA FMEA #: 05-6-2241-1 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5174
 ITEM: CIRCUIT BREAKER, 5A THERMAL (MAIN B CONTR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5175
NASA FMEA #: 05-6-2241-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5175
ITEM: CIRCUIT BREAKER, 5A THERMAL (MAIN B CONTR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[3 / 3]		[]	[]	[]	[] *
IOA	[3 / 3]		[]	[]	[]	[]
COMPARE	[/]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/05/87
ASSESSMENT ID: EPD&C-5176
NASA FMEA #: 05-6-2183-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5176
ITEM: DIODE, ISOLATION 12A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[NA]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[N /]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND" TO THIS FMEA.
IOA CONCURS WITH THE NASA AFTER LEARNING OF THE FUEL CELL SAFING
CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/05/87
ASSESSMENT ID: EPD&C-5177
NASA FMEA #: 05-6-2183-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5177
ITEM: DIODE, ISOLATION 12A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA AFTER FURTHER EXAMINATION OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/05/87
ASSESSMENT ID: EPD&C-5178
NASA FMEA #: 05-6-2184-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5178
ITEM: DIODE, ISOLATION 12A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND" TO THIS FMEA.
IOA CONCURS WITH NASA AFTER FURTHER EXAMINATION OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/05/87
ASSESSMENT ID: EPD&C-5179
NASA FMEA #: 05-6-2184-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5179
ITEM: DIODE, ISOLATION 12A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[NA]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA AFTER LEARNING OF FUEL CELL SAFING CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/05/87
ASSESSMENT ID: EPD&C-5180
NASA FMEA #: 05-6-2212-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5180
ITEM: SWITCH, TOGGLE SPDT (MAIN BUS TIE B)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NASA HAS REDEFINED THIS FAILURE MODE AS: FAILS OPEN, FAILS CLOSED
IN "OFF" POSITION. IOA CONCURS WITH NASA'S REEVALUATION AS THIS
IS A STANDBY FUNCTION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/05/87
ASSESSMENT ID: EPD&C-5180A
NASA FMEA #: 05-6-2212-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5180
ITEM: SWITCH, TOGGLE SPDT (MAIN BUS TIE B)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[NA]	[P]	[X] *
IOA	[2 /1R]	[P]	[NA]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/05/87 NASA DATA:
 ASSESSMENT ID: EPD&C-5181 BASELINE []
 NASA FMEA #: 05-6-2212-3 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5181
 ITEM: SWITCH, TOGGLE SPDT (MAIN BUS TIE B)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA HAS REDEFINED THIS FAILURE MODE AS: FAILS CLOSED IN "ON" POSITION, SHORTS (CONTACT TO CONTACT). IOA CONCURS WITH NASA'S REEVALUATION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 7/01/87
ASSESSMENT ID: EPD&C-5182
NASA FMEA #: 05-6-2211-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5182
ITEM: SWITCH, TOGGLE SPDT (FC/MN BUS B)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[NA]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA HAS REDEFINED THIS FAILURE MODE AS: FAILS TO TRANSFER TO "OFF", SHORTS TO GROUND, FAILS CLOSED IN "ON". IOA CONCURS WITH NASA'S REEVALUATION DUE TO FUEL CELL SAFING CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/05/87
ASSESSMENT ID: EPD&C-5183
NASA FMEA #: 05-6-2211-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5183
ITEM: SWITCH, TOGGLE SPDT (FC/MN BUS B)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA HAS REDEFINED THIS FAILURE MODE AS: FAILS CLOSED IN "OFF" POSITION. IOA CONCURS WITH NASA'S REEVALUATION AND AGREES THAT THIS FAILURE IS CRIT 1 DURING INTACT ABORT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/18/87
ASSESSMENT ID: EPD&C-5184
NASA FMEA #: 05-6-2228-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5184
ITEM: SWITCH, TOGGLE SPDT (PAYLOAD AFT MN B)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NASA HAS REDEFINED THIS FAILURE MODE AS: FAILS TO TRANSFER, FAILS TO OPEN, FAILS TO CLOSE. IOA CONCURS WITH NASA'S REEVALUATION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/18/87
ASSESSMENT ID: EPD&C-5184A
NASA FMEA #: 05-6-2228-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5184
ITEM: SWITCH, TOGGLE SPDT (PAYLOAD AFT MN B)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[NA]	[P]	[X] *
IOA	[2 /1R]	[P]	[NA]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND" TO THIS COMPONENT. IOA CONCURS WITH NASA'S ANALYSIS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/18/87
ASSESSMENT ID: EPD&C-5185
NASA FMEA #: 05-6-2228-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5185
ITEM: SWITCH, TOGGLE SPDT (PAYLOAD AFT MN B)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NASA HAS REDEFINED THIS FAILURE MODE AS: SHORTS. IOA CONCURS
WITH NASA'S REEVALUATION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5186
NASA FMEA #: 05-6-2392-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5186
ITEM: RELAY (TO AFT PAYLOAD BUS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5187
NASA FMEA #: 05-6-2392-2

NASA DATA: _____
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5187
ITEM: RELAY (TO AFT PAYLOAD BUS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5188
NASA FMEA #: 05-6-2288-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5188
ITEM: FUSE, 80A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5189
NASA FMEA #: 05-6-2243-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5189
ITEM: RESISTOR, 5.1K

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5190
NASA FMEA #: 05-6-2278-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5190
ITEM: FUSE, 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[N /]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO AFTER LEARNING MORE
INFORMATION ABOUT EMERGENCY FUNCTIONS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5191
NASA FMEA #: 05-6-2278-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5191
ITEM: FUSE, 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[N /]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO AFTER LEARNING MORE INFORMATION ABOUT EMERGENCY FUNCTIONS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
 ASSESSMENT ID: EPD&C-5192
 NASA FMEA #: NEW # UNKNOWN

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5192
 ITEM: FUSE, 10A TO RMS PWR & RJDA

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[N /]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER ANALYSIS OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5193
NASA FMEA #: 05-6-2601-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5193
ITEM: FUSE, 5A TO RESISTORS TO CONT BUS PWR MN B, ESS
BUSSES 1BC & 3AB

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5194
NASA FMEA #: 05-6-2280-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5194
ITEM: FUSE, 15A TO A14 PANEL (RCS/OMS HTRS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER EXAMINATION OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5195
NASA FMEA #: 05-6-2278-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5195
ITEM: FUSE, 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[N /]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO AFTER LEARNING MORE
INFORMATION ABOUT EMERGENCY FUNCTIONS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5196
NASA FMEA #: 05-6-2278-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5196
ITEM: FUSE, 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[N /]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[] / [] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO AFTER LEARNING MORE INFORMATION ABOUT EMERGENCY FUNCTIONS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5197
NASA FMEA #: 05-6-2247-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5197
ITEM: CIRCUIT BREAKER, 10A (MN B UTIL PWR F1/M013Q)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5198
NASA FMEA #: 05-6-2247-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5198
ITEM: CIRCUIT BREAKER, 10A (MN B UTIL PWR F1/M013Q)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5199
NASA FMEA #: 05-6-2261-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5199
ITEM: CIRCUIT BREAKER, 10A (CONT BUS CA1, CA2, CA3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AS A CIRCUIT BREAKER "POP"
IS NOT READILY DETECTABLE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5200
NASA FMEA #: 05-6-2261-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5200
ITEM: CIRCUIT BREAKER, 10A (CONT BUS CA1, CA2, CA3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5201
NASA FMEA #: 05-6-2225-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5201
ITEM: SWITCH, TOGGLE (DC UTIL PWR MN B)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5203
NASA FMEA #: 05-6-2225-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5203
ITEM: SWITCH, TOGGLE (DC UTIL PWR MN B)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[3 / 3]		[]	[]	[]	[] *
IOA	[3 / 3]		[]	[]	[]	[]
COMPARE	[/]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

REPORT DATE 02/23/88

C-220

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87 NASA DATA:
 ASSESSMENT ID: EPD&C-5204 BASELINE []
 NASA FMEA #: 05-6-2225-1 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5204
 ITEM: SWITCH, TOGGLE (DC UTIL PWR MN B)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5205
NASA FMEA #: 05-6-2707-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5205
ITEM: RESISTOR, 1.2K 2W (TO FPCA-2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA
OPERATIONAL STATUS MEASUREMENTS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5205A
NASA FMEA #: 05-6-2707-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5205
ITEM: RESISTOR, 1.2K 2W (TO FPCA-2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5206
NASA FMEA #: 05-6-2657-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5206
ITEM: SWITCH, TOGGLE SPST (MCA LOGIC MN B FWD 2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA
OPERATIONAL STATUS MEASUREMENTS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5207
NASA FMEA #: 05-6-2657-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5207
ITEM: SWITCH, TOGGLE SPST (MCA LOGIC MN B FWD 2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5208
NASA FMEA #: 05-6-2006-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5208
ITEM: FUSE, 150A TO FPCA-2

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5209
NASA FMEA #: 05-6-2006-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5209
ITEM: FUSE, 150A TO FPCA-2

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5210
NASA FMEA #: 05-6-2006-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5210
ITEM: FUSE, 150A TO FPCA-2

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
[]

&a3528HINADEQUATE
REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5211
NASA FMEA #: 05-6-2354-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5211
ITEM: RESISTOR, 5.1K 1/4W (TO GSE MONITOR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5212
NASA FMEA #: 05-6-2807-2

NASA DATA: -----
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5212
ITEM: RPC, 5A (FMCA-2 PWR CONT)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5213
NASA FMEA #: 05-6-2807-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5213
ITEM: RPC, 5A (FMCA-2 PWR CONT)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B". GROUND CAN DETERMINE STATE OF RPC VIA OPERATIONAL STATUS MEASUREMENTS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5214
NASA FMEA #: 05-6-2006-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5214
ITEM: FUSE, 150A TO MAIN DC DIST ASSY 2

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5215
NASA FMEA #: 05-6-2006-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5215
ITEM: FUSE, 150A TO MAIN DC DIST ASSY 2

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5216
NASA FMEA #: 05-6-2006-1

NASA DATA: ~~DATA~~
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5216
ITEM: FUSE, 150A TO MAIN DC DIST ASSY 2

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5217
NASA FMEA #: 05-6-2294-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5217
ITEM: FUSE, 35A TO FLCA-2

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[1 /1]	[]	[]	[]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA AGREES WITH NASA'S EVALUATION BECAUSE THE IOA ANALYST WAS
UNAWARE OF THE SINGLE STRING FIRE SUPPRESSION SYSTEM.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5218
NASA FMEA #: NOT FOUND

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: EPD&C
MDAC ID: 5218
ITEM: RESISTOR, 5.1K

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

THIS COMPONENT HAS NO CONNECTION TO FLIGHT HARDWARE OR IS A TEST POINT. THEREFORE NASA DID NOT INCLUDE IT IN THEIR FMEAS. IOA CONCURS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5219
NASA FMEA #: 05-6-2351-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5219
ITEM: RESISTOR, 1.8K 1/4W (TO SIG COND OF2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5220
NASA FMEA #: 05-6-2705-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5220
ITEM: RESISTOR, 1.2K 2W (TO MPCA-2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA OPERATIONAL STATUS MEASUREMENTS AND THE CREW CAN MONITER THE MOTOR OPERATION TIME.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5220A
NASA FMEA #: 05-6-2705-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5220
ITEM: RESISTOR, 1.2K 2W (TO MPCA-2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5221
NASA FMEA #: 05-6-2655-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5221
ITEM: SWITCH, TOGGLE SPST (MCA LOGIC MN B MID 1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA OPERATIONAL STATUS MEASUREMENTS AND THE CREW CAN MONITER THE MOTOR OPERATION TIME.

[illegible]

NASA DATA:
 BASELINE []
 NEW []

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	* []
IOA	[3 /3]	[]	[]	[]	
COMPARE	[/]	[]	[]	[]	[]
RECOMMENDATIONS: (If different from NASA)					
	[/]	[]	[]	[]	[] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS :

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5223
NASA FMEA #: 05-6-2703-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5223
ITEM: RESISTOR, 1.2K 2W (TO MPCA-2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA
OPERATIONAL STATUS MEASUREMENTS AND THE CREW CAN MONITER THE
MOTOR OPERATION TIME.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5223A
NASA FMEA #: 05-6-2703-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5223
ITEM: RESISTOR, 1.2K 2W (TO MPCA-2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5224
NASA FMEA #: 05-6-2653-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5224
ITEM: SWITCH, TOGGLE SPST (MCA LOGIC MN B MID 2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA OPERATIONAL STATUS MEASUREMENTS AND THE CREW CAN MONITER THE MOTOR OPERATION TIME.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5225
NASA FMEA #: 05-6-2653-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5225
ITEM: SWITCH, TOGGLE SPST (MCA LOGIC MN B MID 2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AS IOA WAS UNAWARE OF THE
"PSYCHOTIC GPC" CONCERN.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5226
NASA FMEA #: 05-6-2705-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5226
ITEM: RESISTOR, 1.2K 2W (TO MPCA-2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA
OPERATIONAL STATUS MEASUREMENTS AND THE CREW CAN MONITER THE
MOTOR OPERATION TIME.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5226A
NASA FMEA #: 05-6-2705-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5226
ITEM: RESISTOR, 1.2K 2W (TO MPCA-2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY			REDUNDANCY SCREENS			CIL ITEM
	FLIGHT			A	B	C	
	HDW/FUNC						
NASA	[3 / 3]			[]	[]	[]	[] *
IOA	[3 / 3]			[]	[]	[]	[]
COMPARE	[/]			[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5227
NASA FMEA #: 05-6-2655-2

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: EPD&C
MDAC ID: 5227
ITEM: SWITCH, TOGGLE SPST (MCA LOGIC MN B MID 3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5228
NASA FMEA #: 05-6-2655-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5228
ITEM: SWITCH, TOGGLE SPST (MCA LOGIC MN B MID 3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA OPERATIONAL STATUS MEASUREMENTS AND THE CREW CAN MONITER THE MOTOR OPERATION TIME.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5229
NASA FMEA #: 05-6-2703-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5229
ITEM: RESISTOR, 1.2K 2W (TO MPCA-2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA
OPERATIONAL STATUS MEASUREMENTS AND THE CREW CAN MONITER THE
MOTOR OPERATION TIME.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5229A
NASA FMEA #: 05-6-2703-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5229
ITEM: RESISTOR, 1.2K 2W (TO MPCA-2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5230
NASA FMEA #: 05-6-2653-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5230
ITEM: SWITCH, TOGGLE SPST (MCA LOGIC MN B MID 4)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AS IOA WAS UNAWARE OF THE
"PSYCHOTIC GPC" CONCERN.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5231
NASA FMEA #: 05-6-2653-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5231
ITEM: SWITCH, TOGGLE SPST (MCA LOGIC MN B MID 4)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA OPERATIONAL STATUS MEASUREMENTS AND THE CREW CAN MONITER THE MOTOR OPERATION TIME.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5232
NASA FMEA #: 05-6-2295-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5232
ITEM: FUSE, 100A TO MPCA-2

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER EXAMINATION OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5233
NASA FMEA #: 05-6-2354-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5233
ITEM: RESISTOR, 5.1K 1/4W (TO GSE MONITOR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
 ASSESSMENT ID: EPD&C-5234
 NASA FMEA #: 05-6-2805-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5234
 ITEM: RPC, 5A (TO MMCA-1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[3 / 3]		[]	[]	[]	[] *
IOA	[3 / 3]		[]	[]	[]	[]
COMPARE	[/]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5235
NASA FMEA #: 05-6-2805-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5235
ITEM: RPC, 5A (TO MMCA-1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5236
NASA FMEA #: 05-6-2803-2

NASA DATA: ~~REVISION~~
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5236
ITEM: RPC, 5A (TO MMCA-2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA - IOA UNAWARE OF "PSYCHOTIC GPC" PROBLEM.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5237
NASA FMEA #: 05-6-2803-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5237
ITEM: RPC, 5A (TO MMCA-2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5238
NASA FMEA #: 05-6-2805-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5238
ITEM: RPC, 5A (TO MMCA-3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5239
NASA FMEA #: 05-6-2805-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5239
ITEM: RPC, 5A (TO MMCA-3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

C-4

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5240
NASA FMEA #: 05-6-2803-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5240
ITEM: RPC, 5A (TO MMCA-4)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA - IOA UNAWARE OF "PSYCHOTIC GPC" PROBLEM.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5241
NASA FMEA #: 05-6-2803-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5241
ITEM: RPC, 5A (TO MMCA-4)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5242
NASA FMEA #: 05-6-2299-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5242
ITEM: FUSE, 35A TO H2/O2 HTR CONT ASSY #2

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

CRITICALITY		REDUNDANCY SCREENS			CIL
FLIGHT					ITEM
HDW/FUNC		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5243
NASA FMEA #: 05-6-2299-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5243
ITEM: FUSE, 50A TO H2/O2 HTR CONT ASSY #3

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5244
NASA FMEA #: 05-6-2299-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5244
ITEM: FUSE, 50A TO H2/O2 HTR CONT ASSY #4

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
ASSESSMENT ID: EPD&C-5245
NASA FMEA #: 05-6-2010-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5245
ITEM: FUSE, 150A TO APCA-2

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA THAT SCREEN "B" IS PASS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5246
NASA FMEA #: 05-6-2293B-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5246
ITEM: FUSE, 100A TO ALCA-2

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[1 / 1]	[]	[]	[]	[X] *
IOA	[1 / 1]	[P]	[F]	[F]	[X]
COMPARE	[/]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE

INADEQUATE [X]
[]

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87 NASA DATA:
ASSESSMENT ID: EPD&C-5247 BASELINE []
NASA FMEA #: 05-6-2351-1 NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5247
ITEM: RESISTOR, 1.8K 1/4W (TO SIG COND OA2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	* []
IOA	[3 /3]	[]	[]	[]	
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5248
NASA FMEA #: 05-6-2701-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5248
ITEM: RESISTOR, 1.2K 2W (TO APCA-5)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA
OPERATIONAL STATUS MEASUREMENTS AND THE CREW CAN MONITER THE
MOTOR OPERATION TIME.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5248A
NASA FMEA #: 05-6-2701-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5248
ITEM: RESISTOR, 1.2K 2W (TO APCA-5)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5249
NASA FMEA #: 05-6-2651-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5249
ITEM: SWITCH, TOGGLE SPST (MCA LOGIC MN B AFT 2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE CREW CAN MONITER THE MOTOR OPERATION TIME.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5250
NASA FMEA #: 05-6-2651-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5250
ITEM: SWITCH, TOGGLE SPST (MCA LOGIC MN B AFT 2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5251
NASA FMEA #: 05-6-2801-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5251
ITEM: RPC, 5A (TO AMCA-2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE RPC STATE WITH THE MCA OPERATIONAL STATUS MEASUREMENT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5252
NASA FMEA #: 05-6-2801-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5252
ITEM: RPC, 5A (TO AMCA-2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5253
NASA FMEA #: 05-6-2333-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5253
ITEM: RESISTOR, 1.2K 2W (TO P/L AUX BUS - MPCA-1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 7/02/87
ASSESSMENT ID: EPD&C-5253A
NASA FMEA #: 05-6-2333-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5253
ITEM: RESISTOR, 1.2K 2W (TO P/L AUX BUS - MPCA-1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5254
NASA FMEA #: 05-6-2333-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5254
ITEM: RESISTOR, 1.2K 2W (TO P/L AUX BUS - MPCA-2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 7/02/87
ASSESSMENT ID: EPD&C-5254A
NASA FMEA #: 05-6-2333-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5254
ITEM: RESISTOR, 1.2K 2W (TO P/L AUX BUS - MPCA-2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5255
NASA FMEA #: 05-6-2333-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5255
ITEM: RESISTOR, 1.2K 2W (TO P/L CABIN BUS - MPCA-2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 7/02/87
ASSESSMENT ID: EPD&C-5255A
NASA FMEA #: 05-6-2333-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5255
ITEM: RESISTOR, 1.2K 2W (TO P/L CABIN BUS - MPCA-2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5256
NASA FMEA #: 05-6-2333-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5256
ITEM: RESISTOR, 1.2K 2W (TO P/L CABIN BUS - MPCA-1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 7/02/87
ASSESSMENT ID: EPD&C-5256A
NASA FMEA #: 05-6-2333-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5256
ITEM: RESISTOR, 1.2K 2W (TO P/L CABIN BUS - MPCA-1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5257
NASA FMEA #: 05-6-2234-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5257
ITEM: SWITCH, TOGGLE DPDT (PAYLOAD AUX)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NASA HAS ADDED THE FAILURE MODE "SHORTS" TO THIS FMEA. IOA
CONCURS WITH NASA'S REEVALUTION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5258
NASA FMEA #: 05-6-2234-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5258
ITEM: SWITCH, TOGGLE DPDT (PAYLOAD AUX)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[3 / 2R]	[P]	[P]	[P]	[]
COMPARE	[N / N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND" TO THIS FMEA.
IOA CONCURS WITH NASA'S REEVALUATION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5259
NASA FMEA #: 05-6-2233-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5259
ITEM: SWITCH, TOGGLE SPDT (PAYLOAD CABIN)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NASA HAS ADDED THE FAILURE MODE "SHORTS" TO THIS FMEA. IOA
CONCURS WITH NASA'S REEVALUATION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5261
NASA FMEA #: 05-6-2326-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5261
ITEM: RESISTOR, 5.1K 1/4W (TO MDM OF4)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[3 / 3]		[]	[]	[]	[] *
IOA	[3 / 3]		[]	[]	[]	[]
COMPARE	[/]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5262
NASA FMEA #: 05-6-2326-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5262
ITEM: RESISTOR, 5.1K 1/4W (TO MDM OF4)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5263
NASA FMEA #: 05-6-2326-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5263
ITEM: RESISTOR, 5.1K 1/4W (TO MDM OF4)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5264
NASA FMEA #: 05-6-2394-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5264
ITEM: RPC, 20A TO P/L AUX & P/L EMERGENCY BUSSES

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5265
NASA FMEA #: 05-6-2394-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5265
ITEM: RPC, 20A TO P/L AUX & P/L EMERGENCY BUSES

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5266
NASA FMEA #: 05-6-2395-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5266
ITEM: RPC, 15A TO PAYLOAD CABIN

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5267
NASA FMEA #: 05-6-2395-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5267
ITEM: RPC, 15A TO PAYLOAD CABIN

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5268
NASA FMEA #: 05-6-2395-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5268
ITEM: RPC, 15A TO PAYLOAD CABIN

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5269
NASA FMEA #: 05-6-2395-1

NASA DATA:-----
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5269
ITEM: RPC, 15A TO PAYLOAD CABIN

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5270
NASA FMEA #: 05-6-2395-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5270
ITEM: RPC, 15A TO PAYLOAD CABIN

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5271
NASA FMEA #: 05-6-2395-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5271
ITEM: RPC, 15A TO PAYLOAD CABIN

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5272
NASA FMEA #: 05-6-2322-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5272
ITEM: RESISTOR, 1.8K (TO MDM OF1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5273
NASA FMEA #: 05-6-2321-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5273
ITEM: RESISTOR, 2.2K (TO MDM OF1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5274
NASA FMEA #: 05-6-2205-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5274
ITEM: DIODE, ISOLATION 35A (TO PAYLOAD CABIN)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5275
NASA FMEA #: 05-6-2205-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5275
ITEM: DIODE, ISOLATION 35A (TO PAYLOAD CABIN)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 2R]	[P]	[F]	[P]	[X]
COMPARE	[/ N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER ANALYSIS OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5276
NASA FMEA #: 05-6-2205-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5276
ITEM: DIODE, ISOLATION 35A (TO PAYLOAD CABIN)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER ANALYSIS OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5277
NASA FMEA #: 05-6-2205-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5277
ITEM: DIODE, ISOLATION 35A (TO PAYLOAD CABIN)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5278
NASA FMEA #: 05-6-2205-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5278
ITEM: DIODE, ISOLATION 35A (TO PAYLOAD CABIN)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5279
NASA FMEA #: 05-6-2205-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5279
ITEM: DIODE, ISOLATION 35A (TO PAYLOAD CABIN)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER ANALYSIS OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5280
NASA FMEA #: 05-6-2205-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5280
ITEM: DIODE, ISOLATION 35A (TO PAYLOAD CABIN)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER ANALYSIS OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5281
NASA FMEA #: 05-6-2205-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5281
ITEM: DIODE, ISOLATION 35A (TO PAYLOAD CABIN)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5282
NASA FMEA #: 05-6-2205-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5282
ITEM: DIODE, ISOLATION 35A (TO PAYLOAD CABIN)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5283
NASA FMEA #: 05-6-2205-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5283
ITEM: DIODE, ISOLATION 35A (TO PAYLOAD CABIN)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER ANALYSIS OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5284
NASA FMEA #: 05-6-2205-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5284
ITEM: DIODE, ISOLATION 35A (TO PAYLOAD CABIN)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER ANALYSIS OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5285
NASA FMEA #: 05-6-2205-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5285
ITEM: DIODE, ISOLATION 35A (TO PAYLOAD CABIN)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5286
NASA FMEA #: 05-6-2395-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5286
ITEM: RPC, 15A TO PAYLOAD CABIN

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5287
NASA FMEA #: 05-6-2395-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5287
ITEM: RPC, 15A TO PAYLOAD CABIN

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5288
NASA FMEA #: 05-6-2395-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5288
ITEM: RPC, 15A TO PAYLOAD CABIN

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5289
NASA FMEA #: 05-6-2395-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5289
ITEM: RPC, 15A TO PAYLOAD CABIN

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5290
NASA FMEA #: 05-6-2395-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5290
ITEM: RPC, 15A TO PAYLOAD CABIN

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5291
NASA FMEA #: 05-6-2395-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5291
ITEM: RPC, 15A TO PAYLOAD CABIN

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5292
NASA FMEA #: 05-6-2394-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5292
ITEM: RPC, 20A TO P/L AUX & P/L EMERGENCY BUSES

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5293
NASA FMEA #: 05-6-2394-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5293
ITEM: RPC, 20A TO P/L AUX & P/L EMERGENCY BUSES

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5294
NASA FMEA #: 05-6-2322-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5294
ITEM: RESISTOR, 1.8K (TO MDM OF2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5295
NASA FMEA #: 05-6-2321-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5295
ITEM: RESISTOR, 2.2K (TO MDM OF2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5296
NASA FMEA #: 05-6-2396-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5296
ITEM: RPC, 7.5A (P/L PWR KILL MAIN B/C)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER LEARNING MORE ABOUT
PAYLOAD POWER REQUIREMENTS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5297
NASA FMEA #: 05-6-2396-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5297
ITEM: RPC, 7.5A (P/L PWR KILL MAIN B/C)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[3 /1R]		[P]	[P]	[P]	[] *
IOA	[3 /2R]		[P]	[P]	[P]	[]
COMPARE	[/N]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER LEARNING MORE ABOUT
PAYLOAD POWER REQUIREMENTS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5298
NASA FMEA #: 05-6-2209-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5298
ITEM: DIODE, ISOLATION 35A (TO MAIN DC DIST ASSY #2 -
P/L PWR KILL)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5299
NASA FMEA #: 05-6-2209-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5299
ITEM: DIODE, ISOLATION 35A (TO MAIN DC DIST ASSY #2 -
P/L PWR KILL)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND" TO THIS FMEA.
IOA CONCURS WITH NASA'S REEVALUATION DUE TO FUEL CELL SAFING
CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5300
NASA FMEA #: 05-6-2209-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5300
ITEM: DIODE, ISOLATION 35A (TO MAIN DC DIST ASSY #3 -
P/L PWR KILL)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND" TO THIS FMEA.
IOA CONCURS WITH NASA'S REEVALUATION DUE TO FUEL CELL SAFING
CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5301
NASA FMEA #: 05-6-2209-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5301
ITEM: DIODE, ISOLATION 35A (TO MAIN DC DIST ASSY #3 -
P/L PWR KILL)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5302
NASA FMEA #: 05-6-2210-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5302
ITEM: DIODE, ISOLATION 35A (TO P/L PWR KILL - FC#3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA RE-EVALUATION AS IOA WAS UNAWARE OF NSTS PROGRAM POLICY NOT TO SUPPLY PAYLOAD POWER DIRECTLY FROM FUEL CELL 3.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5303
NASA FMEA #: 05-6-2210-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5303
ITEM: DIODE, ISOLATION 35A (TO P/L PWR KILL - FC#3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND" TO THIS FMEA.
IOA CONCURS WITH NASA'S REEVALUATION DUE TO FUEL CELL SAFING
CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5304
NASA FMEA #: 05-6-2397-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5304
ITEM: RPC, 7.5A (P/L PWR KILL F/C#3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER LEARNING MORE ABOUT
PAYLOAD POWER REQUIREMENTS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5305
NASA FMEA #: 05-6-2397-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5305
ITEM: RPC, 7.5A (P/L PWR KILL F/C#3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER LEARNING MORE ABOUT
PAYLOAD POWER REQUIREMENTS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/18/87
ASSESSMENT ID: EPD&C-5306
NASA FMEA #: 05-6-2227-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5306
ITEM: SWITCH, TOGGLE SPDT (PAYLOAD PRI MN B)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NASA HAS REDEFINED THIS FAILURE MODE AS: FAILS TO TRANSFER, FAILS TO OPEN, FAILS TO CLOSE. IOA CONCURS WITH NASA'S REEVALUATION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/18/87
ASSESSMENT ID: EPD&C-5306A
NASA FMEA #: 05-6-2227-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5306
ITEM: SWITCH, TOGGLE SPDT (PAYLOAD PRI MN B)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[NA]	[P]	[X] *
IOA	[2 /1R]	[P]	[NA]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/18/87
ASSESSMENT ID: EPD&C-5307
NASA FMEA #: 05-6-2227-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5307
ITEM: SWITCH, TOGGLE SPDT (PAYLOAD PRI MN B)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NASA HAS REDEFINED THIS FAILURE MODE AS: SHORTS. IOA CONCURS
WITH NASA'S REEVALUATION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/18/87
ASSESSMENT ID: EPD&C-5308
NASA FMEA #: 05-6-2226-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5308
ITEM: SWITCH, TOGGLE SPDT (PAYLOAD PRI F/C#3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NASA HAS REDEFINED THIS FAILURE MODE AS: FAIL TO TRANSFER, FAILS TO OPEN, FAILS TO CLOSE. IOA CONCURS WITH NASA'S REEVALUATION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/18/87
ASSESSMENT ID: EPD&C-5308A
NASA FMEA #: 05-6-2226-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5308
ITEM: SWITCH, TOGGLE SPDT (PAYLOAD PRI F/C#3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[NA]	[P]	[X] *
IOA	[2 /1R]	[P]	[NA]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/18/87
ASSESSMENT ID: EPD&C-5309
NASA FMEA #: 05-6-2226-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5309
ITEM: SWITCH, TOGGLE SPDT (PAYLOAD PRI F/C#3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA HAS REDEFINED THIS FAILURE MODE AS: FAILS CLOSED IN "ON" POSITION. IOA CONCURS WITH NASA'S REEVALUATION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/18/87
ASSESSMENT ID: EPD&C-5310
NASA FMEA #: 05-6-2227-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5310
ITEM: SWITCH, TOGGLE SPDT (PAYLOAD PRI MN C)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NASA HAS REDEFINED THIS FAILURE MODE AS: FAILS TO TRANSFER, FAILS TO OPEN, FAILS TO CLOSE. IOA CONCURS WITH NASA'S REEVALUATION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/18/87
ASSESSMENT ID: EPD&C-5310A
NASA FMEA #: 05-6-2227-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5310
ITEM: SWITCH, TOGGLE SPDT (PAYLOAD PRI MN C)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[NA]	[P]	[X] *
IOA	[2 /1R]	[P]	[NA]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/18/87
ASSESSMENT ID: EPD&C-5311
NASA FMEA #: 05-6-2227-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5311
ITEM: SWITCH, TOGGLE SPDT (PAYLOAD PRI MN C)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NASA HAS REDEFINED THIS FAILURE MODE AS: SHORTS. IOA CONCURS
WITH NASA'S REEVALUATION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5312
NASA FMEA #: 05-6-2141-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5312
ITEM: SWITCH, MOTORIZED (MAIN DC BUS B TO PAYLOAD)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA AFTER FURTHER ANALYSIS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5313
NASA FMEA #: 05-6-2141-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5313
ITEM: SWITCH, MOTORIZED (MAIN DC BUS B TO PAYLOAD)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5314
NASA FMEA #: 05-6-2323-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5314
ITEM: RESISTOR, 5.1K 1/4W (TO MDM OF3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY			REDUNDANCY SCREENS			CIL ITEM
	FLIGHT			A	B	C	
	HDW/FUNC						
NASA	[3 / 3]			[]	[]	[]	[] *
IOA	[3 / 3]			[]	[]	[]	[]
COMPARE	[/]			[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5315
NASA FMEA #: 05-6-2324-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5315
ITEM: RESISTOR, 1.2K 2W

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/]	[]	[]	[]	[]
-------------	--------	--------	--------	--------

(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 7/01/87
ASSESSMENT ID: EPD&C-5315A
NASA FMEA #: 05-6-2324-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5315
ITEM: RESISTOR, 1.2K 2W

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY			REDUNDANCY SCREENS			CIL ITEM
	FLIGHT			A	B	C	
	HDW/FUNC						
NASA	[3 / 3]			[]	[]	[]	[] *
IOA	[3 / 3]			[]	[]	[]	[]
COMPARE	[/]			[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
 ASSESSMENT ID: EPD&C-5316
 NASA FMEA #: 05-6-2606-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5316
 ITEM: FUSE, 150A TO MAIN DC DIST ASSY 3 (PAYLOAD)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[X]
COMPARE	[/N]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER ANALYSIS OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5317
NASA FMEA #: 05-6-2606-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5317
ITEM: FUSE, 150A TO MAIN DC DIST ASSY 3 (PAYLOAD)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[X]
COMPARE	[/N]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER ANALYSIS OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 7/01/87
ASSESSMENT ID: EPD&C-5318
NASA FMEA #: 05-6-2240-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5318
ITEM: SWITCH, TOGGLE SPDT (FC 3 STRUCT RTN)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER LEARNING OF MCR11954.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 7/01/87
ASSESSMENT ID: EPD&C-5318A
NASA FMEA #: 05-6-2240-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5318
ITEM: SWITCH, TOGGLE SPDT (FC 3 STRUCT RTN)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[NA]	[P]	[X] *
IOA	[2 /1R]	[P]	[NA]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER LEARNING OF MCR11954.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 7/01/87
ASSESSMENT ID: EPD&C-5319
NASA FMEA #: 05-6-2240-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5319
ITEM: SWITCH, TOGGLE SPDT (FC 3 STRUCT RTN)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER LEARNING OF MCR11954.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5320
NASA FMEA #: 05-6-2606-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5320
ITEM: FUSE, 150A TO PAYLOAD

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[X]
COMPARE	[/N]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER ANALYSIS OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5321
NASA FMEA #: 05-6-2606-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5321
ITEM: FUSE, 150A TO PAYLOAD

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[X]
COMPARE	[/N]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER ANALYSIS OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5322
NASA FMEA #: 05-6-2289-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5322
ITEM: FUSE, 200A TO PAYLOAD

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[3 /2R]	[P]	[F]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER EXAMINATION OF THE CIRCUIT. IOA DID NOT CONSIDER A SINGLE STRING POWERED PAYLOAD.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5323
NASA FMEA #: 05-6-2289-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5323
ITEM: FUSE, 200A TO PAYLOAD

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[3 /2R]	[P]	[F]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER EXAMINATION OF THE CIRCUIT. IOA DID NOT CONSIDER A SINGLE STRING POWERED PAYLOAD.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5324
NASA FMEA #: 05-6-2289-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5324
ITEM: FUSE, 200A TO PAYLOAD

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[3 /2R]	[P]	[F]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER EXAMINATION OF THE CIRCUIT. IOA DID NOT CONSIDER A SINGLE STRING POWERED PAYLOAD.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5325
NASA FMEA #: 05-6-2289-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5325
ITEM: FUSE, 200A TO PAYLOAD

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[3 /2R]	[P]	[F]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER EXAMINATION OF THE CIRCUIT. IOA DID NOT CONSIDER A SINGLE STRING POWERED PAYLOAD.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5326
NASA FMEA #: 05-6-2324-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5326
ITEM: RESISTOR, 1.2K 2W

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

REPORT DATE 02/23/88

C-358

C-5

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 7/01/87
ASSESSMENT ID: EPD&C-5326A
NASA FMEA #: 05-6-2324-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5326
ITEM: RESISTOR, 1.2K 2W

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5327
NASA FMEA #: 05-6-2324-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5327
ITEM: RESISTOR, 1.2K 2W

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 7/01/87
ASSESSMENT ID: EPD&C-5327A
NASA FMEA #: 05-6-2324-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5327
ITEM: RESISTOR, 1.2K 2W

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY			REDUNDANCY SCREENS			CIL ITEM
	FLIGHT			A	B	C	
	HDW/FUNC						
NASA	[3 /3]			[]	[]	[]	[] *
IOA	[3 /3]			[]	[]	[]	[]
COMPARE	[/]			[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5328
NASA FMEA #: 05-6-2323-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5328
ITEM: RESISTOR, 5.1K 1/4W (TO MDM OF3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5329
NASA FMEA #: 05-6-2323-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5329
ITEM: RESISTOR, 5.1K 1/4W (TO MDM OF3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[3 / 3]		[]	[]	[]	[] *
IOA	[3 / 3]		[]	[]	[]	[]
COMPARE	[/]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5330
NASA FMEA #: 05-6-2208-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5330
ITEM: DIODE, ISOLATION 35A (TO DC RETURN FROM P/L BAY)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[F]	[NA]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[N]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREENS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5331
NASA FMEA #: 05-6-2208-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5331
ITEM: DIODE, ISOLATION 35A (TO DC RETURN FROM P/L BAY)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5332
NASA FMEA #: 05-6-2208-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5332
ITEM: DIODE, ISOLATION 35A (TO DC RETURN FROM P/L BAY)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5333
NASA FMEA #: 05-6-2208-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5333
ITEM: DIODE, ISOLATION 35A (TO DC RETURN FROM P/L BAY)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[F]	[NA]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[N]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
IOA CONCURS WITH NASA'S SCREENS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5334
NASA FMEA #: 05-6-2140-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5334
ITEM: SWITCH, MOTORIZED (F/C 3 TO PAYLOAD)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER EXAMINATION OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5335
NASA FMEA #: 05-6-2140-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5335
ITEM: SWITCH, MOTORIZED (F/C 3 TO PAYLOAD)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[NA]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA AFTER LEARNING OF THE FUEL CELL SAFING CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5336
NASA FMEA #: 05-6-2142-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5336
ITEM: SWITCH, MOTORIZED (F/C 3 STRUCTURE RETURN)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[1 /1]	[]	[]	[]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA HAS REDEFINED THIS FAILURE MODE TO "FAILS OPEN" - IOA
CONCURS WITH THE NASA REEVALUTION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5337
NASA FMEA #: 05-6-2142-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5337
ITEM: SWITCH, MOTORIZED (F/C 3 STRUCTURE RETURN)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NASA HAS REDEFINED THIS FAILURE MODE TO "FAILS CLOSED" - IOA
CONCURS WITH THE NASA REEVALUTION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5339
NASA FMEA #: 05-6-2141-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5339
ITEM: SWITCH, MOTORIZED (MAIN DC BUS C TO PAYLOAD)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5340
NASA FMEA #: 05-6-2389-4

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5340
ITEM: RPC, 7.5A (GSE MAIN C OFF)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[3 / 3]		[]	[]	[]	[] *
IOA	[3 / 3]		[]	[]	[]	[]
COMPARE	[/]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5341
NASA FMEA #: 05-6-2389-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5341
ITEM: RPC, 7.5A (GSE MAIN C OFF)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5342
NASA FMEA #: 05-6-2389-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5342
ITEM: RPC, 7.5A (GSE MAIN C ON)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	A	B	C	CIL ITEM
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5343
NASA FMEA #: 05-6-2389-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5343
ITEM: RPC, 7.5A (GSE MAIN C ON)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO CONCERNS ABOUT
INADVERTENT POWERING OF THE PREFLIGHT TEST BUS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5344
NASA FMEA #: 05-6-2048-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5344
ITEM: SWITCH, MOTORIZED (GSE PWR CONTROL)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC			REDUNDANCY SCREENS			CIL ITEM
				A	B	C	
NASA	[3 / 3]			[]	[]	[]	[] *
IOA	[3 / 3]			[]	[]	[]	[]
COMPARE	[/]			[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5345
NASA FMEA #: 05-6-2048-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5345
ITEM: SWITCH, MOTORIZED (GSE PWR CONTROL)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA AFTER FURTHER EXAMINATION OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
ASSESSMENT ID: EPD&C-5346
NASA FMEA #: 05-6-2008C-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5346
ITEM: FUSE, 200A TO MAIN DC DIST ASSY 3

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[F]	[X]
COMPARE	[N /]	[]	[]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH THE NASA REEVALUATION AFTER FURTHER ANALYSIS OF THE CIRCUIT. SCREEN "C" DIFFERENCE WAS A TYPO.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
ASSESSMENT ID: EPD&C-5347
NASA FMEA #: 05-6-2008C-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5347
ITEM: FUSE, 200A TO MAIN DC DIST ASSY 3

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[F]	[X]
COMPARE	[N /]	[]	[]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH THE NASA REEVALUATION AFTER FURTHER ANALYSIS OF THE CIRCUIT. SCREEN "C" DIFFERENCE WAS A TYPO.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5348
NASA FMEA #: 05-6-2257-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5348
ITEM: FUSE, 3A TO GSE MONITOR

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5349
NASA FMEA #: 05-6-2350-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5349
ITEM: RESISTOR, 1.2K (TO GSE PWR CONT)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5350
NASA FMEA #: 05-6-2354-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5350
ITEM: RESISTOR, 5.1K 1/4W (TO GSE MONITOR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5351
NASA FMEA #: 05-6-2354-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5351
ITEM: RESISTOR, 5.1K 1/4W (TO GSE MONITOR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5352
NASA FMEA #: 05-6-2342-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5352
ITEM: RESISTOR, 5.1K 1/4W (TO MDM OF3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/]	[]	[]	[]	[]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5353
NASA FMEA #: 05-6-2342-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5353
ITEM: RESISTOR, 5.1K 1/4W (TO MDM OF3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[3 / 3]		[]	[]	[]	[] *
IOA	[3 / 3]		[]	[]	[]	[]
COMPARE	[/]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5354
NASA FMEA #: 05-6-2336-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5354
ITEM: RESISTOR, 1.2K 2W

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5355
NASA FMEA #: 05-6-2334-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5355
ITEM: RESISTOR, 2K 1/4W (TO C&W)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
 ASSESSMENT ID: EPD&C-5356
 NASA FMEA #: 05-6-2334-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5356
 ITEM: RESISTOR, 14K 1/4W (TO C&W)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5357
NASA FMEA #: 05-6-2345C-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5357
ITEM: SHUNT, DC AMMETER (TO F/C 3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA AGREES WITH NASA THAT THIS FAILURE IS 1/1 FOR RTLS ABORT DUE TO HELIUM BLOWDOWN VALVES FAILURE AND PROBLEMS WITH OMS FUEL DUMP.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
ASSESSMENT ID: EPD&C-5358
NASA FMEA #: 05-6-2008C-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5358
ITEM: FUSE, 200A TO APCA-6

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[F]	[X]
COMPARE	[N /]	[]	[]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH THE NASA REEVALUATION AFTER FURTHER ANALYSIS OF
THE CIRCUIT. SCREEN "C" DIFFERENCE WAS A TYPO.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
ASSESSMENT ID: EPD&C-5359
NASA FMEA #: 05-6-2008C-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5359
ITEM: FUSE, 200A TO APCA-6

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[F]	[X]
COMPARE	[N /]	[]	[]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH THE NASA REEVALUATION AFTER FURTHER ANALYSIS OF THE CIRCUIT. SCREEN "C" DIFFERENCE WAS A TYPO.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5360
NASA FMEA #: 05-6-2255-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5360
ITEM: FUSE, 5A TO MPCA-3, FPCA-3, APCA-6

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5361
NASA FMEA #: 05-6-2260-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5361
ITEM: FUSE, 200A TO DC TIE BUS

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5362
NASA FMEA #: 05-6-2260-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5362
ITEM: FUSE, 200A TO DC TIE BUS

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5363
NASA FMEA #: NOT FOUND

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: EPD&C
MDAC ID: 5363
ITEM: FUSE, 10A (NO LOAD CONNECTED)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

THIS COMPONENT HAS NO CONNECTION TO FLIGHT HARDWARE OR IS A TEST POINT. THEREFORE NASA DID NOT INCLUDE IT IN THEIR FMEAS. IOA CONCURS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5364
NASA FMEA #: 05-6-2242-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5364
ITEM: FUSE, 20A TO ESS BUS 3AB

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5365
NASA FMEA #: 05-6-2270-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5365
ITEM: FUSE, 3A TO DC VOLTMETER

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5366
NASA FMEA #: 05-6-2253-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5366
ITEM: FUSE, 3A TO DC VOLTMETER

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5367
NASA FMEA #: 05-6-2241-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5367
ITEM: CIRCUIT BREAKER, 5A THERMAL (MAIN C CONTR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5368
NASA FMEA #: 05-6-2241-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5368
ITEM: CIRCUIT BREAKER, 5A THERMAL (MAIN C CONTR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/05/87
ASSESSMENT ID: EPD&C-5369
NASA FMEA #: 05-6-2212-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5369
ITEM: SWITCH, TOGGLE SPDT (MAIN BUS TIE C)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NASA HAS REDEFINED THIS FAILURE MODE AS: FAILS OPEN, FAILS CLOSED
IN "OFF" POSITION. IOA CONCURS WITH NASA'S REEVALUATION AS THIS
IS A STANDBY FUNCTION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/05/87
ASSESSMENT ID: EPD&C-5369A
NASA FMEA #: 05-6-2212-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5369
ITEM: SWITCH, TOGGLE SPDT (MAIN BUS TIE C)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[NA]	[P]	[X] *
IOA	[2 /1R]	[P]	[NA]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/05/87
ASSESSMENT ID: EPD&C-5370
NASA FMEA #: 05-6-2212-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5370
ITEM: SWITCH, TOGGLE SPDT (MAIN BUS TIE C)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NASA HAS REDEFINED THIS FAILURE MODE AS: FAILS CLOSED IN "ON" POSITION, SHORTS (CONTACT TO CONTACT). IOA CONCURS WITH NASA'S REEVALUATION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 7/01/87
ASSESSMENT ID: EPD&C-5371
NASA FMEA #: 05-6-2211-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5371
ITEM: SWITCH, TOGGLE DPDT (FC/MN BUS C)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[NA]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA HAS REDEFINED THIS FAILURE MODE AS: FAILS TO TRANSFER TO "OFF", SHORTS TO GROUND, FAILS CLOSED IN "ON". IOA CONCURS WITH NASA'S REEVALUATION DUE TO FUEL CELL SAFING CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/05/87
ASSESSMENT ID: EPD&C-5372
NASA FMEA #: 05-6-2211-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5372
ITEM: SWITCH, TOGGLE DPDT (FC/MN BUS C)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA HAS REDEFINED THIS FAILURE MODE AS: FAILS CLOSED IN "OFF" POSITION. IOA CONCURS WITH NASA'S REEVALUATION AND AGREES THAT THIS FAILURE IS CRIT 1 DURING INTACT ABORT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/18/87
ASSESSMENT ID: EPD&C-5373
NASA FMEA #: 05-6-2228-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5373
ITEM: SWITCH, TOGGLE SPDT (PAYLOAD AFT MN C)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NASA HAS REDEFINED THIS FAILURE MODE AS: FAILS TO TRANSFER, FAILS TO OPEN, FAILS TO CLOSE. IOA CONCURS WITH NASA'S REEVALUATION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/18/87
ASSESSMENT ID: EPD&C-5373A
NASA FMEA #: 05-6-2228-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5373
ITEM: SWITCH, TOGGLE SPDT (PAYLOAD AFT MN C)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[NA]	[P]	[X] *
IOA	[2 /1R]	[P]	[NA]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND" TO THIS COMPONENT. IOA CONCURS WITH NASA'S ANALYSIS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/18/87
ASSESSMENT ID: EPD&C-5374
NASA FMEA #: 05-6-2228-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5374
ITEM: SWITCH, TOGGLE SPDT (PAYLOAD AFT MN C)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NASA HAS REDEFINED THIS FAILURE MODE AS: SHORTS. IOA CONCURS
WITH NASA'S REEVALUATION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5375
NASA FMEA #: 05-6-2392-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5375
ITEM: RELAY (TO AFT PAYLOAD BUS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5376
NASA FMEA #: 05-6-2392-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5376
ITEM: RELAY (TO AFT PAYLOAD BUS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[3 / 3]		[]	[]	[]	[] *
IOA	[3 / 3]		[]	[]	[]	[]
COMPARE	[/]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5377
NASA FMEA #: 05-6-2288-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5377
ITEM: FUSE, 80A TO AFT P/L MN C

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5378
NASA FMEA #: 05-6-2243-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5378
ITEM: RESISTOR, 5.1K

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5379
NASA FMEA #: 05-6-2388A-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5379
ITEM: RPC, 7.5A (DC TIE BUS MAIN C)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5380
NASA FMEA #: 05-6-2388A-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5380
ITEM: RPC, 7.5A (DC TIE BUS MAIN C)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO FUEL CELL SAFING CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5381
NASA FMEA #: 05-6-2388B-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5381
ITEM: RPC, 7.5A (DC TIE BUS MAIN C)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5382
NASA FMEA #: 05-6-2388B-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5382
ITEM: RPC, 7.5A (DC TIE BUS MAIN C)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	A	B	C	CIL ITEM
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO THIS FAILURE ALONG WITH INADVERTENT POWER ON THE PREFLIGHT TEST BUS WOULD PREVENT A BUS TIE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5383
NASA FMEA #: 05-6-2387A-2

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: EPD&C
MDAC ID: 5383
ITEM: RPC, 7.5A (MAIN DC BUS C F/C PWR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5384
NASA FMEA #: 05-6-2387A-1

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: EPD&C
MDAC ID: 5384
ITEM: RPC, 7.5A (MAIN DC BUS C F/C PWR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO FUEL CELL SAFING CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE:	6/13/87	NASA DATA:
ASSESSMENT ID:	EPD&C-5385	BASELINE []
NASA FMEA #:	05-6-2387B-2	NEW []

SUBSYSTEM: EPD&C
MDAC ID: 5385
ITEM: RPC, 7.5A (MAIN DC BUS C F/C PWR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/]	[]	[]	[]	[]	(ADD/DELETE)
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* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE	[]
INADEQUATE	[]

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5386
NASA FMEA #: 05-6-2387B-1

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: EPD&C
MDAC ID: 5386
ITEM: RPC, 7.5A (MAIN DC BUS C F/C PWR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO THIS FAILURE ALONG WITH INADVERTENT POWER ON THE PREFLIGHT TEST BUS WOULD DISCONNECT A MAIN DC BUS FROM THE FUEL CELL. IF A BUS TIE COULD NOT BE PERFORMED THE BUS WOULD BE LOST.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
 ASSESSMENT ID: EPD&C-5387
 NASA FMEA #: 05-6-2207-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5387
 ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 7/01/87
ASSESSMENT ID: EPD&C-5387A
NASA FMEA #: 05-6-2207-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5387
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5388
NASA FMEA #: 05-6-2207-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5388
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA DUE TO CONCERNS ABOUT INADVERTENT POWERING
OF THE PREFLIGHT TEST BUS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5389
NASA FMEA #: 05-6-2207-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5389
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA DUE TO CONCERNS ABOUT INADVERTENT POWERING OF THE PREFLIGHT TEST BUS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5390
NASA FMEA #: 05-6-2207-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5390
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 7/01/87
ASSESSMENT ID: EPD&C-5390A
NASA FMEA #: 05-6-2207-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5390
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5391
NASA FMEA #: 05-6-2207-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5391
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/]	[]	[]	[]	[]	(ADD/DELETE)
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* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 7/01/87
 ASSESSMENT ID: EPD&C-5391A
 NASA FMEA #: 05-6-2207-3

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5391
 ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5392
NASA FMEA #: 05-6-2207-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5392
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA DUE TO CONCERNS ABOUT INADVERTENT POWERING
OF THE PREFLIGHT TEST BUS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5393
NASA FMEA #: 05-6-2207-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5393
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA DUE TO CONCERNS ABOUT INADVERTENT POWERING OF THE PREFLIGHT TEST BUS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5394
NASA FMEA #: 05-6-2207-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5394
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA DUE TO FUEL CELL SAFING CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 7/01/87
ASSESSMENT ID: EPD&C-5394A
NASA FMEA #: 05-6-2207-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5394
ITEM: DIODE, ISOLATION 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5395
NASA FMEA #: 05-6-2278-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5395
ITEM: FUSE, 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[N /]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO AFTER LEARNING MORE INFORMATION ABOUT EMERGENCY FUNCTIONS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5396
NASA FMEA #: 05-6-2278-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5396
ITEM: FUSE, 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[N /]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO AFTER LEARNING MORE INFORMATION ABOUT EMERGENCY FUNCTIONS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5397
NASA FMEA #: NEW # UNKNOWN

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5397
ITEM: FUSE, 5A TO RJDA

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
 ASSESSMENT ID: EPD&C-5398
 NASA FMEA #: 05-6-2280-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5398
 ITEM: FUSE, 15A TO A14 PANEL (RCS/OMS HTRS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5399
NASA FMEA #: 05-6-2601-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5399
ITEM: FUSE, 5A TO RESISTORS TO CONT BUS MAIN C, ESS
BUSSES 1BC & 2CA

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5400
NASA FMEA #: DELETED

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5400
ITEM: FUSE, 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

WIRING CHANGE HAS DISCONNECTED THIS FUSE FROM ALL LOADS.
THEREFORE, NASA HAS DELETED THIS FMEA NUMBER.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5401
NASA FMEA #: 05-6-2278-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5401
ITEM: FUSE, 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5402
NASA FMEA #: 05-6-2278-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5402
ITEM: FUSE, 35A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[N /]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO AFTER LEARNING MORE INFORMATION ABOUT EMERGENCY FUNCTIONS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5403
NASA FMEA #: 05-6-2247-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5403
ITEM: CIRCUIT BREAKER, 10A (MN C UTIL PWR
A11/A15/M030F)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5404
NASA FMEA #: 05-6-2247-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5404
ITEM: CIRCUIT BREAKER, 10A (MN C UTIL PWR
A11/A15/M030F)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	A	B	C	CIL ITEM
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5405
NASA FMEA #: 05-6-2261-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5405
ITEM: CIRCUIT BREAKER, 10A (CONT BUS AB1, AB2, AB3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5406
NASA FMEA #: 05-6-2261-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5406
ITEM: CIRCUIT BREAKER, 10A (CONT BUS AB1, AB2, AB3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AS A CIRCUIT BREAKER "POP"
IS NOT READILY DETECTABLE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5407
NASA FMEA #: 05-6-2181-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5407
ITEM: DIODE, ISOLATION 12A (TO CONT BUS AB1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/]	[]	[]	[]	[]
-------	-----	-----	-----	-----

(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND" TO THIS FMEA.
IOA CONCURS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
 ASSESSMENT ID: EPD&C-5408
 NASA FMEA #: 05-6-2181-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5408
 ITEM: DIODE, ISOLATION 12A (TO CONT BUS AB1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5409
NASA FMEA #: 05-6-2181-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5409
ITEM: DIODE, ISOLATION 12A (TO CONT BUS AB2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

CRITICALITY		REDUNDANCY SCREENS			CIL
FLIGHT		A	B	C	ITEM
HDW/FUNC					
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5410
NASA FMEA #: 05-6-2181-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5410
ITEM: DIODE, ISOLATION 12A (TO CONT BUS AB2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND" TO THIS FMEA.
IOA CONCURS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5411
NASA FMEA #: 05-6-2181-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5411
ITEM: DIODE, ISOLATION 12A (TO CONT BUS AB3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND" TO THIS FMEA.
IOA CONCURS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5412
NASA FMEA #: 05-6-2181-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5412
ITEM: DIODE, ISOLATION 12A (TO CONT BUS AB3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5413
NASA FMEA #: 05-6-2225-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5413
ITEM: SWITCH, TOGGLE (DC UTIL PWR MN C)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5414
NASA FMEA #: 05-6-2225-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5414
ITEM: SWITCH, TOGGLE (DC UTIL PWR MN C)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5415
NASA FMEA #: 05-6-2225-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5415
ITEM: SWITCH, TOGGLE (DC UTIL PWR MN C)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
FLIGHT					
HDW/FUNC		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

C - 6

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5416
NASA FMEA #: 05-6-2225-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5416
ITEM: SWITCH, TOGGLE (DC UTIL PWR MN C)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5417
NASA FMEA #: 05-6-2225-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5417
ITEM: SWITCH, TOGGLE (DC UTIL PWR MN C)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
 ASSESSMENT ID: EPD&C-5418
 NASA FMEA #: 05-6-2225-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5418
 ITEM: SWITCH, TOGGLE (DC UTIL PWR MN C)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5419
NASA FMEA #: 05-6-2707-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5419
ITEM: RESISTOR, 1.2K 2W (TO FPCA-3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA
OPERATIONAL STATUS MEASUREMENTS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5419A
NASA FMEA #: 05-6-2707-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5419
ITEM: RESISTOR, 1.2K 2W (TO FPCA-3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5420
NASA FMEA #: 05-6-2657-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5420
ITEM: SWITCH, TOGGLE SPST (MCA LOGIC MN C FWD 3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87 NASA DATA:
 ASSESSMENT ID: EPD&C-5421 BASELINE []
 NASA FMEA #: 05-6-2657-1 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5421
 ITEM: SWITCH, TOGGLE SPST (MCA LOGIC MN C FWD 3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA
 OPERATIONAL STATUS MEASUREMENTS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5422
NASA FMEA #: 05-6-2006-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5422
ITEM: FUSE, 150A TO FPCA-3

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5423
NASA FMEA #: 05-6-2006-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5423
ITEM: FUSE, 150A TO FPCA-3

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5424
NASA FMEA #: 05-6-2354-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5424
ITEM: RESISTOR, 5.1K 1/4W (TO GSE MONITOR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5425
NASA FMEA #: 05-6-2807-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5425
ITEM: RPC, 5A (FMCA-3 PWR CONT)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5426
NASA FMEA #: 05-6-2807-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5426
ITEM: RPC, 5A (FMCA-3 PWR CONT)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B". GROUND CAN DETERMINE STATE OF RPC VIA OPERATIONAL STATUS MEASUREMENTS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5427
NASA FMEA #: 05-6-2294-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5427
ITEM: FUSE, 35A TO FLCA-3

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[1 / 1]	[]	[]	[]	[X] *
IOA	[3 / 1R]	[P]	[F]	[P]	[X]
COMPARE	[N / N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA AGREES WITH NASA'S EVALUATION BECAUSE THE IOA ANALYST WAS
UNAWARE OF THE SINGLE STRING FIRE SUPPRESSION SYSTEM.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5428
NASA FMEA #: NOT FOUND

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: EPD&C
MDAC ID: 5428
ITEM: RESISTOR, 5.1K

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/]	[]	[]	[]	[]	(ADD/DELETE)
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* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

THIS COMPONENT HAS NO CONNECTION TO FLIGHT HARDWARE OR IS A TEST POINT. THEREFORE NASA DID NOT INCLUDE IT IN THEIR FMEAS. IOA CONCURS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
 ASSESSMENT ID: EPD&C-5429
 NASA FMEA #: 05-6-2351-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5429
 ITEM: RESISTOR, 1.8K 1/4W (TO SIG COND OF3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

_____ [/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5430
NASA FMEA #: 05-6-2704-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5430
ITEM: RESISTOR, 1.2K 2W (TO MPCA-3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA OPERATIONAL STATUS MEASUREMENTS AND THE CREW CAN MONITER THE MOTOR OPERATION TIME.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5430A
NASA FMEA #: 05-6-2704-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5430
ITEM: RESISTOR, 1.2K 2W (TO MPCA-3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5431
NASA FMEA #: 05-6-2703-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5431
ITEM: RESISTOR, 1.2K 2W (TO MPCA-3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA OPERATIONAL STATUS MEASUREMENTS AND THE CREW CAN MONITER THE MOTOR OPERATION TIME.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5431A
NASA FMEA #: 05-6-2703-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5431
ITEM: RESISTOR, 1.2K 2W (TO MPCA-3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5432
NASA FMEA #: 05-6-2654-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5432
ITEM: SWITCH, TOGGLE SPST (MCA LOGIC MN C MID 2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA OPERATIONAL STATUS MEASUREMENTS AND THE CREW CAN MONITER THE MOTOR OPERATION TIME.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5433
NASA FMEA #: 05-6-2654-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5433
ITEM: SWITCH, TOGGLE SPST (MCA LOGIC MN C MID 2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AS IOA WAS UNAWARE OF THE
"PSYCHOTIC GPC" CONCERN.

ASSESSMENT DATE: 12/08/87 NASA DATA:
ASSESSMENT ID: EPD&C-5434 BASELINE []
NASA FMEA #: 05-6-2653-1 NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5434
ITEM: SWITCH, TOGGLE SPST (MCA LOGIC MN C MID 4)

LEAD ANALYST: K. SCHMECKPEPER

CRITICALITY		REDUNDANCY SCREENS			CIL
FLIGHT					ITEM
HDW/FUNC		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

[/] [] [] [] []
(ADD/DELETE)

ADEQUATE [X]
INADEQUATE []

REMARKS:
THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA
OPERATIONAL STATUS MEASUREMENTS AND THE CREW CAN MONITER THE
MOTOR OPERATION TIME.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5435
NASA FMEA #: 05-6-2653-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5435
ITEM: SWITCH, TOGGLE SPST (MCA LOGIC MN C MID 4)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AS IOA WAS UNAWARE OF THE
"PSYCHOTIC GPC" CONCERN.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5436
NASA FMEA #: 05-6-2295-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5436
ITEM: FUSE, 100A TO MPCA-3

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER EXAMINATION OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
 ASSESSMENT ID: EPD&C-5437
 NASA FMEA #: 05-6-2354-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5437
 ITEM: RESISTOR, 5.1K 1/4W (TO GSE MONITOR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5438
NASA FMEA #: 05-6-2299-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5438
ITEM: FUSE, 35A TO H2/O2 HTR CONT ASSY #1

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5439
NASA FMEA #: 05-6-2299-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5439
ITEM: FUSE, 35A TO H2/O2 HTR CONT ASSY #2

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5440
NASA FMEA #: 05-6-2299-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5440
ITEM: FUSE, 50A TO H2/O2 HTR CONT ASSY #4

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5441
NASA FMEA #: 05-6-2804-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5441
ITEM: RPC, 5A (TO MMCA-2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA - IOA UNAWARE OF "PSYCHOTIC GPC" PROBLEM.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5442
NASA FMEA #: 05-6-2804-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5442
ITEM: RPC, 5A (TO MMCA-2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5443
NASA FMEA #: 05-6-2803-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5443
ITEM: RPC, 5A (TO MMCA-4)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA - IOA UNAWARE OF "PSYCHOTIC GPC" PROBLEM.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5444
NASA FMEA #: 05-6-2803-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5444
ITEM: RPC, 5A (TO MMCA-4)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
ASSESSMENT ID: EPD&C-5445
NASA FMEA #: 05-6-2010-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5445
ITEM: FUSE, 150A TO APCA-3

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA THAT SCREEN "B" IS PASS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/07/87
ASSESSMENT ID: EPD&C-5446
NASA FMEA #: 05-6-2293C-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5446
ITEM: FUSE, 100A TO ALCA-3

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[1 /1]	[P]	[F]	[F]	[X]
COMPARE	[N /N]	[]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER ANALYSIS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5447
NASA FMEA #: 05-6-2351-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5447
ITEM: RESISTOR, 1.8K 1/4W (TO SIG COND OA3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5448
NASA FMEA #: 05-6-2701-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5448
ITEM: RESISTOR, 1.2K 2W (TO APCA-6)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
	A	B	C	
NASA [2 /1R]	[P]	[P]	[P]	[X] *
IOA [2 /1R]	[P]	[F]	[P]	[X]
COMPARE [/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE MCA OPERATIONAL STATUS MEASUREMENTS AND THE CREW CAN MONITER THE MOTOR OPERATION TIME.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5448A
NASA FMEA #: 05-6-2701-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5448
ITEM: RESISTOR, 1.2K 2W (TO APCA-6)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5449
NASA FMEA #: 05-6-2651-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5449
ITEM: SWITCH, TOGGLE SPST (MCA LOGIC MN C AFT 3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE CREW CAN MONITER THE MOTOR
OPERATION TIME.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE:	6/06/87	NASA DATA:
ASSESSMENT ID:	EPD&C-5450	BASELINE []
NASA FMEA #:	05-6-2651-2	NEW [X]
SUBSYSTEM:	EPD&C	
MDAC ID:	5450	
ITEM:	SWITCH, TOGGLE SPST (MCA LOGIC MN C AFT 3)	
LEAD ANALYST:	K. SCHMECKPEPER	

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/]	[]	[]	[]	[]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE	[]
INADEQUATE	[]

REMARKS:

APPENDIX C **ASSESSMENT WORKSHEET**

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5451
NASA FMEA #: 05-6-2801-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5451
ITEM: RPC, 5A (TO AMCA-3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

THE "B" SCREEN PASSES BECAUSE THE GROUND CAN MONITER THE RPC STATE WITH THE MCA OPERATIONAL STATUS MEASUREMENT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5452
NASA FMEA #: 05-6-2801-2

NASA DATA: -----
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5452
ITEM: RPC, 5A (TO AMCA-3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	A	B	C	CIL ITEM
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5453
NASA FMEA #: 05-6-2331-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5453
ITEM: RESISTOR, 1.2K 2W (TO ESS BUS 1BC)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

```

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5454
NASA FMEA #: 05-6-2214-3

SUBSYSTEM: EPD&C
MDAC ID: 5454
ITEM: SWITCH, TOGGLE 3PDT (ESS BUS SOURCE MAIN B/C)

LEAD ANALYST: K. SCHMECKPEPER

```

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[3	/3]	[]	[]	[]	* []
IOA	[3	/3]	[]	[]	[]	
COMPARE	[/]	[]	[]	[]	[]

[/] [] [] [] []
(ADD/DELETE)

ADEQUATE []
INADEQUATE []

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APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5455
NASA FMEA #: 05-6-2214-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5455
ITEM: SWITCH, TOGGLE 3PDT (ESS BUS SOURCE MAIN B/C)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5455A
NASA FMEA #: 05-6-2214-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5455
ITEM: SWITCH, TOGGLE 3PDT (ESS BUS SOURCE MAIN B/C)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5456
NASA FMEA #: 05-6-2331-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5456
ITEM: RESISTOR, 1.2K 2W (TO ESS BUS 1BC)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
FLIGHT HDW/FUNC		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5457
NASA FMEA #: 05-6-2335-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5457
ITEM: RESISTOR, 5.1K 1/4W TO MDM OF4

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5458
NASA FMEA #: 05-6-2213-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5458
ITEM: SWITCH, TOGGLE 3PDT (ESS BUS SOURCE F/C 1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5459
NASA FMEA #: 05-6-2213-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5459
ITEM: SWITCH, TOGGLE 3PDT (ESS BUS SOURCE F/C 1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND - FUEL CELL TO ESS BUS CONTACT" TO THIS FMEA. IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5459A
NASA FMEA #: 05-6-2213-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5459
ITEM: SWITCH, TOGGLE 3PDT (ESS BUS SOURCE F/C 1)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
 ASSESSMENT ID: EPD&C-5460
 NASA FMEA #: 05-6-2335-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5460
 ITEM: RESISTOR, 5.1K 1/4W TO MDM OF4

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5461
NASA FMEA #: 05-6-2338-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5461
ITEM: RESISTOR, 1.8K 1/4W (TO MDM OF2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5462
NASA FMEA #: 05-6-2339-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5462
ITEM: RESISTOR, 2.2K 1/2W (TO MDM OF2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY			REDUNDANCY SCREENS			CIL ITEM
	FLIGHT			A	B	C	
	HDW/FUNC						
NASA	[3 /3]			[]	[]	[]	[] *
IOA	[3 /3]			[]	[]	[]	[]
COMPARE	[/]			[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5463
NASA FMEA #: 05-6-2187-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5463
ITEM: DIODE, ISOLATION (TO MPCA-2 - ESS BUS 1BC)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5464
NASA FMEA #: 05-6-2187-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5464
ITEM: DIODE, ISOLATION (TO MPCA-2 - ESS BUS 1BC)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS				CIL ITEM
		A	B	C		
NASA	[3 / 3]	[]	[]	[]	*	[] *
IOA	[3 / 3]	[]	[]	[]		[]
COMPARE	[/]	[]	[]	[]		[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5465
NASA FMEA #: 05-6-2188-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5465
ITEM: DIODE, BLOCKING

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[F]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCENARIO LISTED ON THE CIL, BUT CONSIDERS THIS TO BE AN "INCREDIBLE" CREDIBLE SET OF FAILURES.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5466
NASA FMEA #: 05-6-2188-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5466
ITEM: DIODE, BLOCKING

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5467
NASA FMEA #: 05-6-2011-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5467
ITEM: RPC, 10A TO MDCA #1 - ESS BUS 1BC

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5468
NASA FMEA #: 05-6-2011-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5468
ITEM: RPC, 10A TO MDCA #1 - ESS BUS 1BC

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5469
NASA FMEA #: 05-6-2011-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5469
ITEM: RPC, 10A TO MDCA #1 - ESS BUS 1BC

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5470
NASA FMEA #: 05-6-2011-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5470
ITEM: RPC, 10A TO MDCA #1 - ESS BUS 1BC

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5471
NASA FMEA #: 05-6-2338-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5471
ITEM: RESISTOR, 1.8K 1/4W (TO MDM OF3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5472
NASA FMEA #: 05-6-2339-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5472
ITEM: RESISTOR, 2.2K 1/2W (TO MDM OF3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	A	B	C	CIL ITEM
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5473
NASA FMEA #: 05-6-2187-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5473
ITEM: DIODE, ISOLATION (TO MPCA-3 - ESS BUS 1BC)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5474
NASA FMEA #: 05-6-2187-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5474
ITEM: DIODE, ISOLATION (TO MPCA-3 - ESS BUS 1BC)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5475
NASA FMEA #: 05-6-2188-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5475
ITEM: DIODE, BLOCKING

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

CRITICALITY		REDUNDANCY SCREENS			CIL
FLIGHT					ITEM
HDW/FUNC		A	B	C	
NASA	[3 /1R]	[F]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCENARIO LISTED ON THE CIL, BUT CONSIDERS THIS TO BE AN "INCREDIBLE" CREDIBLE SET OF FAILURES.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5476
NASA FMEA #: 05-6-2188-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5476
ITEM: DIODE, BLOCKING

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[3 / 3]		[]	[]	[]	[] *
IOA	[3 / 3]		[]	[]	[]	[]
COMPARE	[/]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5477
NASA FMEA #: 05-6-2185-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5477
ITEM: DIODE, ISOLATION 35A (ESS BUS 1BC)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
ASSESSMENT ID: EPD&C-5478
NASA FMEA #: 05-6-2185-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5478
ITEM: DIODE, ISOLATION 35A (ESS BUS 1BC)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[F]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND" TO THIS FMEA.
IOA CONCURS WITH THE NASA REEVALUATION DUE TO FUEL CELL SAFING
CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
ASSESSMENT ID: EPD&C-5479
NASA FMEA #: 05-6-2186-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5479
ITEM: DIODE, ISOLATION 35A (ESS BUS 1BC)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH THE NASA REEVALUATION DUE TO FUEL CELL SAFING CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5480
NASA FMEA #: 05-6-2186-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5480
ITEM: DIODE, ISOLATION 35A (ESS BUS 1BC)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
ASSESSMENT ID: EPD&C-5480A
NASA FMEA #: 05-6-2186-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5480
ITEM: DIODE, ISOLATION 35A (ESS BUS 1BC)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5481
NASA FMEA #: 05-6-2186-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5481
ITEM: DIODE, ISOLATION 35A (ESS BUS 1BC)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
ASSESSMENT ID: EPD&C-5481A
NASA FMEA #: 05-6-2186-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5481
ITEM: DIODE, ISOLATION 35A (ESS BUS 1BC)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

REMARKS:

ADEQUATE []
INADEQUATE []

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
 ASSESSMENT ID: EPD&C-5482
 NASA FMEA #: 05-6-2186-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5482
 ITEM: DIODE, ISOLATION 35A (ESS BUS 1BC)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

IOA CONCURS WITH THE NASA REEVALUATION DUE TO FUEL CELL SAFING CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
ASSESSMENT ID: EPD&C-5483
NASA FMEA #: 05-6-2185-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5483
ITEM: DIODE, ISOLATION 35A (TO R1A1 PANEL - ESS BUS 1BC)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[F]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND" TO THIS FMEA.
IOA CONCURS WITH THE NASA REEVALUATION DUE TO FUEL CELL SAFING CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5484
NASA FMEA #: 05-6-2185-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5484
ITEM: DIODE, ISOLATION 35A (TO R1A1 PANEL - ESS BUS 1BC)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5485
NASA FMEA #: 05-6-2605-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5485
ITEM: FUSE, 7.5A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5486
NASA FMEA #: 05-6-2603-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5486
ITEM: FUSE, 10A TO ESS BUS 1BC

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5487
NASA FMEA #: 05-6-2603-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5487
ITEM: FUSE, 10A TO ESS BUS 1BC

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5488
NASA FMEA #: 05-6-2256-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5488
ITEM: FUSE, 3A TO SIG COND/MDM MONITOR

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5489
NASA FMEA #: NEW # UNKNOWN

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5489
ITEM: FUSE, 15A TO APCA-4

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER ANALYSIS OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
 ASSESSMENT ID: EPD&C-5490
 NASA FMEA #: 05-6-2300-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5490
 ITEM: FUSE, 5A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5491
NASA FMEA #: 05-6-2602-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5491
ITEM: FUSE, 10A TO ML86B PANEL

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5492
NASA FMEA #: 05-6-2276-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5492
ITEM: FUSE, 15A TO MPCA-1

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[N /]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO FUEL CELL SAFING CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5493
NASA FMEA #: 05-6-2300-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5493
ITEM: FUSE, 10A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5494
NASA FMEA #: 05-6-2275-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5494
ITEM: FUSE, 10A TO FPCA-1 & FLCA1

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5495
NASA FMEA #: 05-6-2279-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5495
ITEM: FUSE, 10A TO R15 PANEL

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5496
NASA FMEA #: 05-6-2605-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5496
ITEM: FUSE, 7.5A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5497
NASA FMEA #: NOT FOUND

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: EPD&C
MDAC ID: 5497
ITEM: RESISTOR, 5.1K 1/4W (TO ESS 1BC MONITOR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

THIS COMPONENT HAS NO CONNECTION TO FLIGHT HARDWARE OR IS A TEST POINT. THEREFORE NASA DID NOT INCLUDE IT IN THEIR FMEAS. IOA CONCURS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5498
NASA FMEA #: 05-6-2385-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5498
ITEM: RPC, 15A (TO ESS BUS 1BC)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	A	B	C	CIL ITEM
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5499
NASA FMEA #: 05-6-2385-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5499
ITEM: RPC, 15A (TO ESS BUS 1BC)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5500
NASA FMEA #: 05-6-2335-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5500
ITEM: RESISTOR, 5.1K (ESS BUS 1BC VOLTAGE)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5501
NASA FMEA #: 05-6-2291-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5501
ITEM: FUSE, 7.5A TO ALCA-1 (MPS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5502
NASA FMEA #: 05-6-2191-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5502
ITEM: DIODE, ISOLATION 35A (TO ESS BUS 1BC)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[3 / 3]		[]	[]	[]	[] *
IOA	[3 / 3]		[]	[]	[]	[]
COMPARE	[/]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5502A
NASA FMEA #: 05-6-2191-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5502
ITEM: DIODE, ISOLATION 35A (TO ESS BUS 1BC)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5503
NASA FMEA #: 05-6-2191-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5503
ITEM: DIODE, ISOLATION 35A (TO ESS BUS 1BC)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[F]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA DUE TO CONCERNS ABOUT INADVERTENT POWERING OF THE PREFLIGHT TEST BUS.

c-7

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5504
NASA FMEA #: 05-6-2191-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5504
ITEM: DIODE, ISOLATION 35A (TO ESS BUS 1BC)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[F]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA DUE TO CONCERNS ABOUT INADVERTENT POWERING
OF THE PREFLIGHT TEST BUS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5505
NASA FMEA #: 05-6-2191-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5505
ITEM: DIODE, ISOLATION 35A (TO ESS BUS 1BC)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[3 / 3]		[]	[]	[]	[] *
IOA	[3 / 3]		[]	[]	[]	[]
COMPARE	[/]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5505A
NASA FMEA #: 05-6-2191-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5505
ITEM: DIODE, ISOLATION 35A (TO ESS BUS 1BC)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5506
NASA FMEA #: 05-6-2482-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5506
ITEM: HYBRID DRIVER TYPE I (ESS BUS 1BC)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
 ASSESSMENT ID: EPD&C-5507
 NASA FMEA #: 05-6-2482-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5507
 ITEM: HYBRID DRIVER TYPE I (ESS BUS 1BC)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5508
NASA FMEA #: NOT FOUND

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: EPD&C
MDAC ID: 5508
ITEM: RESISTOR, 5.1K (ESS BUS 1BC TEST POINT)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

THIS COMPONENT HAS NO CONNECTION TO FLIGHT HARDWARE OR IS A TEST POINT. THEREFORE NASA DID NOT INCLUDE IT IN THEIR FMEAS. IOA CONCURS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5509
NASA FMEA #: 05-6-2702-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5509
ITEM: RESISTOR, 1.2K 2W (TO APCA-5)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5509A
NASA FMEA #: 05-6-2702-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5509
ITEM: RESISTOR, 1.2K 2W (TO APCA-5)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5510
NASA FMEA #: 05-6-2652-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5510
ITEM: SWITCH, TOGGLE SPST (AFT POD VLV LOGIC GRP 1/2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5511
NASA FMEA #: 05-6-2652-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5511
ITEM: SWITCH, TOGGLE SPST (AFT POD VLV LOGIC GRP 1/2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5512
NASA FMEA #: 05-6-2802-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5512
ITEM: RPC, 5A (TO RCS/OMS BC BUS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
 ASSESSMENT ID: EPD&C-5513
 NASA FMEA #: 05-6-2802-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5513
 ITEM: RPC, 5A (TO RCS/OMS BC BUS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5514
NASA FMEA #: 05-6-2902-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5514
ITEM: DIODE, 12A (TO RCS/OMS BC BUS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5514A
NASA FMEA #: 05-6-2902-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5514
ITEM: DIODE, 12A (TO RCS/OMS BC BUS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5515
NASA FMEA #: 05-6-2902-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5515
ITEM: DIODE, 12A (TO RCS/OMS BC BUS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[F]	[F]	[P]	[X]
COMPARE	[/]	[N]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "A". THE REVISED OMRSD PROCEDURES
WILL DETECT THIS FAILURE MODE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5516
NASA FMEA #: 05-6-2902-2

NASA DATA:
BASELINE ☐
NEW ☒

SUBSYSTEM: EPD&C
MDAC ID: 5516
ITEM: DIODE, 12A (TO RCS/OMS BC BUS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[F]	[F]	[P]	[X]
COMPARE	[/]	[N]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE ☒
INADEQUATE ☐

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "A". THE REVISED OMRSD PROCEDURES WILL DETECT THIS FAILURE MODE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
 ASSESSMENT ID: EPD&C-5517
 NASA FMEA #: 05-6-2902-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5517
 ITEM: DIODE, 12A (TO RCS/OMS BC BUS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5517A
NASA FMEA #: 05-6-2902-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5517
ITEM: DIODE, 12A (TO RCS/OMS BC BUS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5518
NASA FMEA #: 05-6-2214-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5518
ITEM: SWITCH, TOGGLE 3PDT (ESS BUS SOURCE MAIN C/A)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5518A
NASA FMEA #: 05-6-2214-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5518
ITEM: SWITCH, TOGGLE 3PDT (ESS BUS SOURCE MAIN C/A)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5519
NASA FMEA #: 05-6-2214-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5519
ITEM: SWITCH, TOGGLE 3PDT (ESS BUS SOURCE MAIN C/A)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5520
NASA FMEA #: 05-6-2331-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5520
ITEM: RESISTOR, 1.2K 2W (TO ESS BUS 2CA)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5521
NASA FMEA #: 05-6-2331-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5521
ITEM: RESISTOR, 1.2K 2W (TO ESS BUS 2CA)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5522
NASA FMEA #: 05-6-2335-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5522
ITEM: RESISTOR, 5.1K 1/4W TO MDM OF4

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5523
NASA FMEA #: 05-6-2335-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5523
ITEM: RESISTOR, 5.1K 1/4W TO MDM OF4

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
FLIGHT		A	B	C	
HDW/FUNC					
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[] / [] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5524
NASA FMEA #: 05-6-2213-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5524
ITEM: SWITCH, TOGGLE 3PDT (ESS BUS SOURCE F/C 2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND - FUEL CELL TO ESS BUS CONTACT" TO THIS FMEA. IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5524A
NASA FMEA #: 05-6-2213-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5524
ITEM: SWITCH, TOGGLE 3PDT (ESS BUS SOURCE F/C 2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
 ASSESSMENT ID: EPD&C-5525
 NASA FMEA #: 05-6-2213-3

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5525
 ITEM: SWITCH, TOGGLE 3PDT (ESS BUS SOURCE F/C 2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5526
NASA FMEA #: 05-6-2188-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5526
ITEM: DIODE, BLOCKING

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5527
NASA FMEA #: 05-6-2188-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5527
ITEM: DIODE, BLOCKING

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[F]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCENARIO LISTED ON THE CIL, BUT CONSIDERS THIS TO BE AN "INCREDIBLE" CREDIBLE SET OF FAILURES.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5528
NASA FMEA #: 05-6-2187-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5528
ITEM: DIODE, ISOLATION (TO MPCA-3 - ESS BUS 2CA)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C **ASSESSMENT WORKSHEET**

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5529
NASA FMEA #: 05-6-2187-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5529
ITEM: DIODE, ISOLATION (TO MPCA-3 - ESS BUS 2CA)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5530
NASA FMEA #: 05-6-2338-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5530
ITEM: RESISTOR, 1.8K 1/4W (TO MDM OF3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5531
NASA FMEA #: 05-6-2339-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5531
ITEM: RESISTOR, 2.2K 1/2W (TO MDM OF3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5532
NASA FMEA #: 05-6-2011-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5532
ITEM: RPC, 10A TO MDCA #2 - ESS BUS 2CA

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5533
NASA FMEA #: 05-6-2011-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5533
ITEM: RPC, 10A TO MDCA #2 - ESS BUS 2CA

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5534
NASA FMEA #: 05-6-2011-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5534
ITEM: RPC, 10A TO MDCA #2 - ESS BUS 2CA

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
 ASSESSMENT ID: EPD&C-5535
 NASA FMEA #: 05-6-2011-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5535
 ITEM: RPC, 10A TO MDCA #2 - ESS BUS 2CA

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[3 / 3]		[]	[]	[]	[] *
IOA	[3 / 3]		[]	[]	[]	[]
COMPARE	[/]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5536
NASA FMEA #: 05-6-2338-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5536
ITEM: RESISTOR, 1.8K 1/4W (TO MDM OF2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
 ASSESSMENT ID: EPD&C-5537
 NASA FMEA #: 05-6-2339-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5537
 ITEM: RESISTOR, 2.2K 1/2W (TO MDM OF2)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5538
NASA FMEA #: 05-6-2187-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5538
ITEM: DIODE, ISOLATION (TO MPCA-1 - ESS BUS 2CA)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5539
NASA FMEA #: 05-6-2187-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5539
ITEM: DIODE, ISOLATION (TO MPCA-1 - ESS BUS 2CA)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[3 / 3]		[]	[]	[]	[] *
IOA	[3 / 3]		[]	[]	[]	[]
COMPARE	[/]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5540
NASA FMEA #: 05-6-2188-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5540
ITEM: DIODE, BLOCKING

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[F]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCENARIO LISTED ON THE CIL, BUT CONSIDERS THIS TO BE AN "INCREDIBLE" CREDIBLE SET OF FAILURES.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
 ASSESSMENT ID: EPD&C-5541
 NASA FMEA #: 05-6-2188-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5541
 ITEM: DIODE, BLOCKING

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5542
NASA FMEA #: 05-6-2185-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5542
ITEM: DIODE, ISOLATION 35A (TO R1A1 PANEL - ESS BUS 2CA)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
ASSESSMENT ID: EPD&C-5543
NASA FMEA #: 05-6-2185-2

NASA DATA:

BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5543
ITEM: DIODE, ISOLATION 35A (TO R1A1 PANEL - ESS BUS 2CA)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[F]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND" TO THIS FMEA.
IOA CONCURS WITH THE NASA REEVALUATION DUE TO FUEL CELL SAFING CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
ASSESSMENT ID: EPD&C-5544
NASA FMEA #: 05-6-2186-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5544
ITEM: DIODE, ISOLATION 35A (ESS BUS 2CA)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH THE NASA REEVALUATION DUE TO FUEL CELL SAFING CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5545
NASA FMEA #: 05-6-2186-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5545
ITEM: DIODE, ISOLATION 35A (ESS BUS 2CA)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
ASSESSMENT ID: EPD&C-5545A
NASA FMEA #: 05-6-2186-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5545
ITEM: DIODE, ISOLATION 35A (ESS BUS 2CA)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5546
NASA FMEA #: 05-6-2186-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5546
ITEM: DIODE, ISOLATION 35A (ESS BUS 2CA)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
 ASSESSMENT ID: EPD&C-5546A
 NASA FMEA #: 05-6-2186-3

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5546
 ITEM: DIODE, ISOLATION 35A (ESS BUS 2CA)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
 ASSESSMENT ID: EPD&C-5547
 NASA FMEA #: 05-6-2186-2

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5547
 ITEM: DIODE, ISOLATION 35A (ESS BUS 2CA)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	A	B	C	CIL ITEM
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

IOA CONCURS WITH THE NASA REEVALUATION DUE TO FUEL CELL SAFING CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/15/87
ASSESSMENT ID: EPD&C-5548
NASA FMEA #: 05-6-2185-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5548
ITEM: DIODE, ISOLATION 35A (ESS BUS 2CA)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[F]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND" TO THIS FMEA.
IOA CONCURS WITH THE NASA REEVALUATION DUE TO FUEL CELL SAFING
CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5549
NASA FMEA #: 05-6-2185-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5549
ITEM: DIODE, ISOLATION 35A (ESS BUS 2CA)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5550
NASA FMEA #: 05-6-2603-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5550
ITEM: FUSE, 10A TO ESS BUS 2CA

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5551
NASA FMEA #: 05-6-2603-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5551
ITEM: FUSE, 10A TO ESS BUS 2CA

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5552
NASA FMEA #: 05-6-2605-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5552
ITEM: FUSE, 7.5A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5553
NASA FMEA #: 05-6-2256-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5553
ITEM: FUSE, 3A TO SIG COND/MDM MONITOR

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/01/88
ASSESSMENT ID: EPD&C-5554
NASA FMEA #: NEW # UNKNOWN

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5554
ITEM: FUSE, 15A TO APCA-5

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER ANALYSIS OF THE CIRCUIT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
 ASSESSMENT ID: EPD&C-5555
 NASA FMEA #: 05-6-2300-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5555
 ITEM: FUSE, 5A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5556
NASA FMEA #: 05-6-2602-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5556
ITEM: FUSE, 10A TO ML86B PANEL

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5557
NASA FMEA #: 05-6-2276-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5557
ITEM: FUSE, 15A TO MPCA-2

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[N /]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION DUE TO FUEL CELL SAFING CONCERNS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5558
NASA FMEA #: 05-6-2275-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5558
ITEM: FUSE, 10A TO FPCA-2 & FLCA-2

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5559
NASA FMEA #: 05-6-2279-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5559
ITEM: FUSE, 10A TO 013 & R15 PANELS

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/13/87
ASSESSMENT ID: EPD&C-5560
NASA FMEA #: 05-6-2605-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5560
ITEM: FUSE, 7.5A

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "B".

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5561
NASA FMEA #: NOT FOUND

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: EPD&C
MDAC ID: 5561
ITEM: RESISTOR, 5.1K 1/4W (TO ESS 2CA MONITOR)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

THIS COMPONENT HAS NO CONNECTION TO FLIGHT HARDWARE OR IS A TEST POINT. THEREFORE NASA DID NOT INCLUDE IT IN THEIR FMEAS. IOA CONCURS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5562
NASA FMEA #: NOT FOUND

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: EPD&C
MDAC ID: 5562
ITEM: RESISTOR, 5.1K (ESS BUS 2CA TEST POINT)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

THIS COMPONENT HAS NO CONNECTION TO FLIGHT HARDWARE OR IS A TEST POINT. THEREFORE NASA DID NOT INCLUDE IT IN THEIR FMEAS. IOA CONCURS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5563
NASA FMEA #: 05-6-2482-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5563
ITEM: HYBRID DRIVER TYPE I (ESS BUS 2CA)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[3 / 3]		[]	[]	[]	[] *
IOA	[3 / 3]		[]	[]	[]	[]
COMPARE	[/]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5564
NASA FMEA #: 05-6-2482-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5564
ITEM: HYBRID DRIVER TYPE I (ESS BUS 2CA)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5565
NASA FMEA #: 05-6-2385-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5565
ITEM: RPC, 15A (TO ESS BUS 2CA)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[3 / 3]		[]	[]	[]	[] *
IOA	[3 / 3]		[]	[]	[]	[]
COMPARE	[/]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5566
NASA FMEA #: 05-6-2385-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5566
ITEM: RPC, 15A (TO ESS BUS 2CA)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5567
NASA FMEA #: 05-6-2191-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5567
ITEM: DIODE, ISOLATION 35A (TO ESS BUS 2CA)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5567A
NASA FMEA #: 05-6-2191-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5567
ITEM: DIODE, ISOLATION 35A (TO ESS BUS 2CA)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5568
NASA FMEA #: 05-6-2191-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5568
ITEM: DIODE, ISOLATION 35A (TO ESS BUS 2CA)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[F]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA DUE TO CONCERNS ABOUT INADVERTENT POWERING OF THE PREFLIGHT TEST BUS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5569
NASA FMEA #: 05-6-2191-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5569
ITEM: DIODE, ISOLATION 35A (TO ESS BUS 2CA)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[F]	[F]	[P]	[X] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA DUE TO CONCERNS ABOUT INADVERTENT POWERING
OF THE PREFLIGHT TEST BUS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/04/87
ASSESSMENT ID: EPD&C-5570
NASA FMEA #: 05-6-2191-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5570
ITEM: DIODE, ISOLATION 35A (TO ESS BUS 2CA)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5570A
NASA FMEA #: 05-6-2191-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5570
ITEM: DIODE, ISOLATION 35A (TO ESS BUS 2CA)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/19/87
ASSESSMENT ID: EPD&C-5571
NASA FMEA #: 05-6-2335-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5571
ITEM: RESISTOR, 5.1K (ESS BUS 2CA VOLTAGE)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5572
NASA FMEA #: 05-6-2291-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5572
ITEM: FUSE, 7.5A TO ALCA-2 (MPS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5573
NASA FMEA #: 05-6-2702-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5573
ITEM: RESISTOR, 1.2K 2W (TO APCA-6)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/08/87
ASSESSMENT ID: EPD&C-5573A
NASA FMEA #: 05-6-2702-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5573
ITEM: RESISTOR, 1.2K 2W (TO APCA-6)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5574
NASA FMEA #: 05-6-2652-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5574
ITEM: SWITCH, TOGGLE SPST (AFT POD VLV LOGIC GRP 2/3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/]	[]	[]	[]	[]
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(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5575
NASA FMEA #: 05-6-2652-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5575
ITEM: SWITCH, TOGGLE SPST (AFT POD VLV LOGIC GRP 2/3)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[3 / 3]		[]	[]	[]	[] *
IOA	[3 / 3]		[]	[]	[]	[]
COMPARE	[/]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5576
NASA FMEA #: 05-6-2802-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5576
ITEM: RPC, 5A (TO RCS/OMS CA BUS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
ASSESSMENT ID: EPD&C-5577
NASA FMEA #: 05-6-2802-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5577
ITEM: RPC, 5A (TO RCS/OMS CA BUS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/]	[]	[]	[]	[]	(ADD/DELETE)
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* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5578
NASA FMEA #: 05-6-2902-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5578
ITEM: DIODE, 12A (TO RCS/OMS CA BUS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5578A
NASA FMEA #: 05-6-2902-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5578
ITEM: DIODE, 12A (TO RCS/OMS CA BUS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5579
NASA FMEA #: 05-6-2902-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5579
ITEM: DIODE, 12A (TO RCS/OMS CA BUS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[F]	[F]	[P]	[X]
COMPARE	[/]	[N]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "A". THE REVISED OMRSD PROCEDURES WILL DETECT THIS FAILURE MODE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5580
NASA FMEA #: 05-6-2902-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5580
ITEM: DIODE, 12A (TO RCS/OMS CA BUS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[F]	[F]	[P]	[X]
COMPARE	[/]	[N]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "A". THE REVISED OMRSD PROCEDURES
WILL DETECT THIS FAILURE MODE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5581
NASA FMEA #: 05-6-2902-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5581
ITEM: DIODE, 12A (TO RCS/OMS CA BUS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5581A
NASA FMEA #: 05-6-2902-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5581
ITEM: DIODE, 12A (TO RCS/OMS CA BUS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5582
NASA FMEA #: 05-6-2902-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5582
ITEM: DIODE, 12A (TO RCS/OMS AB BUS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5582A
NASA FMEA #: 05-6-2902-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5582
ITEM: DIODE, 12A (TO RCS/OMS AB BUS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5583
NASA FMEA #: 05-6-2902-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5583
ITEM: DIODE, 12A (TO RCS/OMS AB BUS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[F]	[F]	[P]	[X]
COMPARE	[/]	[N]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "A". THE REVISED OMRSD PROCEDURES WILL DETECT THIS FAILURE MODE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5584
NASA FMEA #: 05-6-2902-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5584
ITEM: DIODE, 12A (TO RCS/OMS AB BUS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[F]	[F]	[P]	[X]
COMPARE	[/]	[N]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

IOA CONCURS WITH NASA'S SCREEN "A". THE REVISED OMRSD PROCEDURES
WILL DETECT THIS FAILURE MODE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5585
NASA FMEA #: 05-6-2902-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5585
ITEM: DIODE, 12A (TO RCS/OMS AB BUS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[3	/1R]	[P]	[F]	[P]	[X] *
IOA	[3	/1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 12/17/87
ASSESSMENT ID: EPD&C-5585A
NASA FMEA #: 05-6-2902-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: EPD&C
MDAC ID: 5585
ITEM: DIODE, 12A (TO RCS/OMS AB BUS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

C-8

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 6/06/87
 ASSESSMENT ID: EPD&C-5586
 NASA FMEA #: 05-6-2802-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: EPD&C
 MDAC ID: 5586
 ITEM: RPC, 5A (TO RCS/OMS AB BUS)

LEAD ANALYST: K. SCHMECKPEPER

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[F]	[P]	[X] *
IOA	[3 /1R]	[P]	[F]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

